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HAS THE INTELLECT A FUNCTION?*

By Wilfred Trotter, M.S. Lond., F.R.S.
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There is no aspiration more commonly expressed by conscientious teachers than that they should be able to give their pupils the power to think for themselves. This ambition seems so innocent and laudable that we are apt to let it pass without examining its merits as a practical proposition. If we do look at it closely in that light we cannot fail to notice certain unexpected features about it. One is that those who propose to confer this great gift of free thought often manifest but little of that activity themselves. A second is that when a pupil does by chance show some evidence of individual thinking the teacher himself is apt to seem a little disconcerted; but perhaps the oddest thing that is noticeable in these good intentions is a reticence about how they are to be carried out. Pupils are to be taught to think for themselves but how it is to be done is withheld from us.

I have produced this little problem merely as an introductory note. Before passing on however we may extract from it a more general reference. We have before us the assumption that the exercise of thinking—and especially of independent thinking—is beyond all question good and desirable. But we also find that this approval is not in practice so wholly unqualified as seems at first to appear. I have called to mind the fact that in the rare case of a pupil developing independence of thought even the teacher is apt to show as a little taken aback. We have the hint, then, that our general applause for thinking is not without an eye on what is thought; that when we urge the young to think for themselves we are inclined to be disappointed if they do not think like us. At the climax of "Mansfield Park" we become aware of some anxiety lest the amiable inertia of Lady Bertram should prevent her reacting to the elopement of her married daughter with the proper indignation. We are reassured however by this remark of the author: "Lady Bertram did not think deeply but, guided by Sir Thomas, she thought justly on all important points." It is to be feared that when we desire our pupils to think for themselves our anxiety is not so much that they should think deeply as that they should think justly on all important points.

THE PROBLEM ITSELF

These trivial preliminary reflections serve to bring us without undue abruptness into the presence of our actual problem, which is the behaviour of the faculty of reason in man. Without pausing here to fidget with definitions it is necessary to say that I use this expression—faculty of reason—which is now so old-fashioned as to be practically out of work, to denote in a broad rough way the capacities in which man differs from the other animals. Now the faculty of reason in one aspect may be said to be the indispensable agent in everything man has accomplished. It enables him to learn, to add knowledge to knowledge and preserve it, to build up arts, sciences, and civilisations without limit. Yet, in another aspect, this same implement can as it were turn in his hand and become the enemy of all constructive activities. With its Ptolemaic systems, caloric fluids and phlogiston theories, reason has been deleterious enough even in the quiet fields of science. It taught astronomers that planetary orbits are circular because the circle is the perfect curve; it proved that the number of planets could be no more than seven and enabled Hegel to deride the none the less successful search for an eighth by Adams and Le Verrier; and even today it probably exercises over free experiment a quiet censorship far stronger than most of us would like to admit.

The history of medicine teaches us that when reason took a hand *there* it was not only truth that suffered. The rational system of a Stahl, a Brown, a Rush or a Broussais unfortunately did not exist in a mere metaphysical vacuum but at the bedside—and armed with opium, antimony, alcohol, mercury, the lancet and the purge. Thus the consequences of the confident use of reason in medicine have been gloomy enough. When the same implement has been applied to the general affairs of life the results have been even more dreadful. Few proscriptions, persecutions and massacres but have had their reasoned and logical justification. The various systems of doctrine that have held dominion over man have been demonstrated to be true beyond all question by rationalists of such power—to name only the greatest—as Aquinas and Calvin and Hegel and Marx. Guided by these master hands the intellect has shown itself more deadly than cholera or bubonic plague and far more cruel. It is a strange fact that this pestilential virulence of reason has never fired the ambition of some great sanitarian of the mind. The incompatibility with one another of all the great systems of doctrine might surely have been expected to provoke some curiosity about their nature.

ACCEPTED SOLUTIONS

These few random instances should be enough to enforce what is after all a very old discovery. The things that come into the mind have a disarming air of obviousness and certainty. But it must have been known at a very early period that they are not to be taken for what they seem without some corrective test of their validity, and some other authentication than their own charm.

In the age-long struggle with this problem no solution has been found that has been able to make human reason a universally applicable and generally trustworthy implement. Nevertheless something has come out of the struggle. This has been the evolution of three methods of setting about the pursuit of knowledge. They are not sharply marked off from one another and tend a good deal to overlap the limits one may be tempted to define for them. They do however clearly differ in the aspect of their task on which each lays its chief emphasis. Of these three methods the first is that of the practical art, which is mainly directed to the preservation of knowledge; the second is that of the natural sciences, which is directed to the increase of verifiable knowledge; and the third is that of philosophy, which seeks the unification of knowledge. The objects then of these three attitudes towards experience—the rewards of man's struggle for intellectual discipline—are respectively to preserve, to verify, and to unite. What their success has been we may now inquire.

*A lecture given at the institute of pathology, St. Mary's Hospital, on June 20.

THE METHOD OF THE PRACTICAL ART

The method of the practical art is that of the carpenter, the farmer, the builder, the doctor; it has of course as such nothing to do with the plastic arts and the æsthetic, but it may well excite our reverence as perhaps embodying the fundamental intellectual discovery on which all civilisations have been built up. Its primary interests have always been the preservation and transmission of knowledge rather than its discovery. These characters have made it the nurse of civilisation at a time when a new discovery could survive only by being fixed in the tradition of an art. A practical art comes then in its very nature to be strongly conservative, reluctant to accept the new, still more reluctant to give up the old; it will teach by precept and example of the master, by apprenticeship; it will embody its lore in traditional dogma and in rule of thumb. Its ideal of success will thus be fulfilled as much by a given course of conduct having been correctly carried out as by its object having been attained. If he knows that he has proceeded *secundum artem* the practitioner will not be greatly distressed by a mere lack of success; and will readily blame the weather for the failure of his crop, the materials for the collapse of his building and his patients' constitutions for their diseases.

The extended reasoning process has little function in the practical arts. If allowed to enter them it finds itself in an environment possessing no indigenous methods of controlling it and is apt to develop a harmful exuberance. Nothing could illustrate this principle better than the speculative systems that devastated the medicine of the eighteenth and early nineteenth centuries in the way I have already referred to. To maintain its health a practical art must be sparing of theory and keep closely in contact with facts. It has no method of discovery other than that of almost purely random trial and error; it has no characteristic method of proof and can assimilate truth only when the prestige of its discoverer is great. For example Steinhaeuser might discover in 1840, and Hughes Bennett proclaim, that cod-liver oil cures rickets, but this enormously important fact remained unproved and no more than a not very respectable pious opinion for the next 80 years.

THE METHOD OF THE NATURAL SCIENCES

The second of what I have called the three methods of setting about the pursuit of knowledge is that of the natural sciences. We need not attempt a complete definition of natural science and if we were to try we should find that its margins tend to grow indistinct as we concentrate on them. A perfectly adequate practical definition is the statement that its central function is to acquire verifiable knowledge. A verifiable fact is one that has shown itself to have a relation to certain definable conditions such that wherever and whenever the conditions have been reproduced the fact in question has always accompanied them. Such verification is the characteristic and only sanction of science. Whether we like a given fact or not, and whether it seems true or revolts our reason, are quite irrelevant to its scientific validity.

All knowledge comes from noticing resemblances and recurrences in the events that happen around us. Although some of us may be much quicker than others in the power of seeing and comparing, it is obvious that the greatest talent cannot carry us very far as long as observation and experiment are applied only to random experience. It is the discovery of natural science that experience can be simplified so that on the one hand resemblances and recurrences in events can be more easily seen, and on the other that the conditions in which they occur can be completely specified. This, using the term in the broadest sense, is the experimental method. In one aspect it may be regarded as a mere refinement of the rough and ready trial and error of the craftsman and the common man. In another aspect however the change is so great as to be virtually a qualitative one and to make the method distinct from all others. It is not necessary to dilate here on the power it has displayed in advancing knowledge or the huge acceleration it has imparted to that process. It is more relevant to note the limits to which its application is subject. The scientific method is unfitted to tackle directly the turbulent stream of everyday experience and common affairs; it must run off minute fractions of it into carefully specified and engineered channels before it can bring its powers to bear. Thus for example the work of social government is not as such directly accessible to it on account of the jumbled miscellaneity of the matters involved.

In saying this I must guard myself against being thought to pronounce on a wholly different question which might be supposed to be similar. It is of course obvious that governments now existing fail to make use of much knowledge already established by science and capable of immediate application. Even however if this deplorable lag could be abolished, the direct application of scientific method to government itself as a whole would, with our present powers, be impossible.

After what has been to some extent a digression we pick up the line of our argument again when we ask ourselves what part in the scientific method is taken by what I have called the extended reasoning process. The history of science is generally supposed to furnish a wonderful display of the triumphs of human reason. I must confess that the reading of it does not induce in me any such grandiose conception of the mind. The separate steps of progress have rarely been much prepared for by long flights of rational forecast. Great investigators seem mostly to have been led from fact to fact; to have depended on a kind of intuitive flair for the behaviour of their material; and to have used reasoning rather for the planning of their work and the design of experiments than for elaborate structures of argument.

Although rational and imaginative speculation is of the greatest general value to science in keeping it from going dry and orthodox, as an actual implement of research it has not very much to its credit. Experience has shown time and again that as soon as science leaves immediate contact with the facts it begins to lose direction and reality, and must constantly return to them for orientation. Great discoveries will therefore continue to be unexpected and the advance of science occur on an irregular front in which the salients mark the places where amongst the facts the going is good. Even research deliberately directed against short-range targets is apt to be held up contrary to all reasonable expectation or to score its successes through unintentional deflections. In the light of these considerations we may contemplate with benefit the bitter war of attrition that has marked the enormous and world-wide attack on cancer; or remember Rayleigh setting out to determine the atomic weight of nitrogen and

coming up against argon, or Holst and Fröhlich setting out to study beriberi and finding the cause of scurvy. We thus seem to get the plain hint of a rather odd conclusion. It is that natural science—by far the most successful of man's inventions for setting about the pursuit of knowledge—has not been able to make any extended use of the directive faculty of reason. If we were to allow the sceptical spirit full liberty for a moment, we might find ourselves wondering whether the vast mass of scientific knowledge has not in some queer way invented itself—a suggestion that makes it seemly to change the subject.

THE METHOD OF PHILOSOPHY

The third method of setting about the pursuit of knowledge is that of philosophy. We may content ourselves here by defining philosophy no more closely than to say it has for its central object the search for unification or less summarily the effort to bring all knowledge whatever into a single consistent scheme. We have perhaps been a little disconcerted at finding ourselves able at least to defend the view that the rational activities of the mind have played no overwhelming part in the practical arts or the natural sciences. We shall not have that fault—if it is a fault—to find with philosophy.

As far as history is able to tell us the deliberate use of rational thought as an implement of research was invented by the Greeks of classical times some 2500 years or more ago. It is difficult to think of now as a definite discovery and to call it such sounds like calling locomotion or digestion a discovery. Nevertheless it was a true discovery and produced a real deflection in the strange roads of human destiny. We can call a discovery great when it catches man unprepared, and we find in the history of many such the evidence of man's unpreparedness in the way he has tended to mix the use and misuse of these gifts. Rational thought in the pursuit of knowledge bears these marks of mixed use and misuse as plainly as do printing, gunpowder and the internal-combustion engine.

This new implement was to impel intellectual activity into a course it was to follow for two and a half millenia. We may therefore well ask ourselves what precisely was the device that could exercise so strong an influence. It was abstract thought. At that name of power we find ourselves at last compelled to devise an exact definition.

The discovery that was made by the Greek, and that we may fairly say intoxicated him, was that you can consider the qualities of things apart from the things themselves. You survey, let us suppose, a miscellaneous collection of objects, untidy and with no coherent meaning. Suddenly you notice that they possess in common some such quality as hardness or colour or weight, and that you can think of this as existing apart from the disorderly mess you are looking at. A new thing has appeared—an abstraction—having an existence of its own and superior to the accidents of the apparent world. You find that these abstractions are easy to think about. They are clear, shapely and can be depended on to stay where you put them. You can consider their relations to one another at your ease without being bothered by odd and "insignificant" individualities. No wonder its discoverers were enchanted by this method of introducing order and seemliness into the chaos of experience and that they exploited it to excess.

A good deal of mystery has been made of the fact that the Greeks, with all their curiosity and liveliness of mind, turned away so obstinately from the immediate study of nature. Even Aristotle was rather contemptuous of direct observation and experiment, and Plato says somewhere concerning the study of natural phenomena, "these things have no absolute first principle and can never be the objects of reason and true science." The mystery seems to me rather artificial. The Greeks despised the mere pedestrian grubbing among facts because they had discovered something superior to it. In the abstract world they had found a better kind of reality—orderly, clean, unaccidental, and capable of being successfully manipulated without soiling a gentleman's fingers or compromising his dignity.

It must be admitted fully that the abstract method is ineradicably entwined in all our thinking and is indispensable. This is however by no means to acquiesce in its universal dominance or to excuse the general failure to examine sceptically its nature and limitations.

The charm and the use of the method are that it permits us to take into our minds phenomena in their essence only, to examine them there and as it were acquire experience of them without being distracted by their mere individual oddities. The abstraction "space" thus comes to represent a certain common quality of innumerable experiences in the world of corners, surfaces, heights, depths and breadths. Vertebrate, amphibian, man are the well-behaved substitutes of countless creatures creeping, jumping, and running about the world in their odd unaccountable way. This process of abstracting what I have rather light-heartedly called the essence of phenomena, will be found to reward a rather closer attention and such attention may well be directed first to the simplest case of the process.

Remarkably little attention seems to have been given to the important fact that the only quality we know of which can be *completely* abstracted is number. Five digits in the mind are, as regards number, as good as five fingers of the hand. Every numerical experience of them and every such manifestation of them that is possible in the outer world can be initiated or repeated in the mind and with equal validity. The science of positive numbers is then the science which is at once perfectly abstract and perfectly experimental. The moment we leave number there begins to appear a decline in the exactitude of the correspondence between the abstraction and the reality. For a long time it seemed that the qualities of space could also be completely abstracted because the conclusions derived from the abstract consideration of space seemed to be confirmed everywhere in the outer world even on the astronomical scale. Ultimately however it dawned on the geometers that there is a discrepancy between the abstraction and the reality. The need of an Einstein to point this out and the uproar that followed are perhaps a little surprising to mere common sense. What seems truly remarkable is not that intuitions derived from the stretch of the arms and the range of the eye should ultimately break down, but that their validity is so wide and their error so small.

When we apply the abstract method to events of the living world as we constantly do and must, we find ourselves faced by a great increase in the individuality of phenomena and should be prepared for a sudden drop in the representative value of all abstractions. The abstraction "man" must always be a thin, imperfect, and easily misleading summary of the innumerable individual "men." It is in the world of ideas however that the abstract makes its

highest flights and develops to the full its fascinations and its dangers. Truth, justice, honour, beauty, being, right, wrong; I give a mere random list of abstractions from that world. These are no mere manageable equivalents designed for convenience of thought. They are creations which, made in all innocence, have taken on a life of their own and become the rulers of the mind. Could there be a more plausible and useful-looking conception than that of "truth"—a unitary principle that is to be the ultimate sanction at once of the statesman and the theologian, the man of science and the poet? Yet it is easy to make out that such a supposed unity can never be, and that behind its solemn frontage is a mere jumble of ideas. Nevertheless this bogus unit has notoriously had a strange power over man's mind and proved itself to be perhaps the most disastrous idol he has ever set up.

Abstraction of some degree is universal and inveterate in all kinds of thinking; in philosophic thinking however it is in addition characteristic and indispensable. The aim of philosophy is to unify all knowledge; it must therefore seek the generality it supposes to lie behind the multitudinous particulars of experience. In thus separating reality from its accidents it must depend on the abstract method as its instrument and on reason as its sanction. Things will be true when they are pronounced true by the informed and enlightened intellect. The ultimate standard of philosophic truth is therefore an internal one; in the last resort such a truth is one that "feels true" to the philosopher. Philosophy has been cultivated by many, perhaps even most of the ablest minds the human race has produced. It has evolved innumerable systems of doctrine, each rationally proved by its founder to be true, and all inconsistent with one another. No enterprise has ever been longer or better pursued than the effort to find a body of philosophic doctrine which should compel the universal assent of rational minds. An experiment that has gone on failing for two and a half millennia may well make us wonder whether the apparatus is adequate or the method sound.

SCIENCE AND PHILOSOPHY IN CONTRAST

The rough definitions I have tried to make of the scientific and philosophic methods should now permit us to bring the two into useful comparison with one another. Before doing so however it is necessary to have clearly in mind that in practice the two procedures are by no means always kept distinct. Many a supposedly scientific opinion gets itself supported on purely rational grounds, and many a philosophic conclusion affects to depend on verification. We are concerned here with the characteristic quality of the two methods, and the fact that in actual use they are often confused only adds to the need for clear definition. Philosophy then desires its conclusions to feel true, science that they should come true; philosophy needs certitude, science needs verification. Science has no certitudes because its conclusions are based not at all on internal conviction but wholly on the regularities of observed experience.

It seems at first sight a very hard saying that science has no certitudes. In face of it we may expect to be reminded that the precision and trustworthiness of science are its very essence. These are undoubtedly among its most attractive characters, but they do not depend on the complete inner conviction of truth that alone gives the sense of certitude. Science makes great use of reason in its special way; it often appeals to the rationality of its conclusions in confirmation of them; and most of its conclusions do in fact come ultimately to seem profoundly reasonable. Nevertheless it does not possess, and should not claim to be based on, a fundamental rationality; the conception that the order or rationality of the universe tallies with the order or rationality of the best human minds, while it is for philosophy a vital necessity, is for science no more than a useful working hypothesis and therefore the servant rather than the master of research. Expositors of science however have unfortunately sometimes tended to drift into the philosophic mood. On such occasions they are apt to tell us of the august and inflexible uniformities of nature, the iron laws of cause and effect, the inevitable certainties of science and similar rationalistic dreams. If we examine science more realistically we shall find that its two most impressive aspects are first its detailed trustworthiness in practice, and secondly its *provisional quality*. It is in this second and rather unobtrusive character that the essence of natural science is revealed. The man of science within his own, often narrow, department can cheerfully regard all his knowledge as provisional only, and indefinitely liable to subversion by further inquiry. He gives us our only hope that some day the human spirit may learn to distrust all certitude, and live bravely in its own right and its own strength.

While it is to be insisted on that rationality is not the ultimate test of scientific truth, there is no reason to question the value of the rational process as an implement of research. It is however an implement of which no finding can be regarded as valid until it has found verification in experience. Whatever flights of reasoning science may take it must ever be returning to the facts for reassurance. Even in the most extended feats of pioneering in the light of theory—as for example we see in some degree in the evolution of the thermionic valve—there must be this repeated verification of actual experiment. The wings given to science by reason must be used like those of the ostrich rather than like those of the eagle, and help it along without raising it from the solid earth.

Philosophy on the other hand is characteristically free from these scruples about the validity of the most extended processes of reasoning. It insists of course that reason must be correctly used, but with this restriction, inflexibly maintains its ultimate validity. I need not repeat the pessimistic conclusion we have been compelled to draw from the failure of philosophy to yield any single dominating system of doctrine. But it is necessary to notice the even more formidable attack on the ultimate validity of reason made by modern psychology. To the rationalist the intellect presents itself as a perfect instrument; if its material is prepared for it by competent logic, precise definition and a proper awareness of the difficult relations between language and meaning, then its operations must be carried on with frictionless integrity and its conclusions possess irresistible force. I have expressed this view in its extreme and perhaps least credible aspect. Other forms of it, less frank but far more insidious, are so nearly general in us all, that it should be described quite brutally as a complete delusion. To the eye of the psychologist the intellect has shown itself to be after all no more than a human organ, with preferences and caprices like the stomach and the kidney. Every structure of argument it builds, however massive and symmetrical it may look, rests on foundations from which it has no means of excluding disturbance by bias and preconception.

Under the attack of this kind of knowledge there can be no doubt that sooner or later the supposed independent validity of reason must go down

THE INTELLECT IN DAILY LIFE

We set out on this inquiry with the innocent and laudable idea that people should be able to think for themselves. It has already led us rather far so that before allowing ourselves to be still more deeply involved we may well ask what is to be the function of this admittedly desirable independent thinking. It is to enable us to contemplate usefully our current experience, and to develop opinions on social, political, and national situations without being entirely directed by custom and by prejudice. Now it is characteristic of the experience of daily life that it comes before us as a miscellaneous jumble of elements of which the mixture is irreducible. It must therefore be obvious that the scientific method cannot be directly applied to it since that method demands complete specification of its situations so that they may be subject to direct observation or controlled experiment. It is necessary here to guard ourselves from thinking that the practice of the scientific method enlarges the powers of the mind. Nothing is more flatly contradicted by experience than the belief that a man, distinguished in one or even several departments of science, is more likely to think sensibly about ordinary affairs than anyone else. The philosophic method on the other hand is no more useful for direct application in daily life than is the scientific. Its rationalism and its confident faith in abstraction would in themselves disqualify it as a guide in the real world. In judging its capacity for this part however we are in a stronger position than we are with regard to science. The scientific method has never been tried in public affairs; the philosophic method has been tried with a persistence and self-devotion worthy of the higher insects. Utilitarianism, Hegelianism, dialectical materialism, totalitarianism are all characteristic products of the philosophic method; however rational and self-consistent they may be, they do not seem very helpful in causing people to think for themselves.

Our search for a method that shall assist the useful contemplation of daily experience has thus had a totally negative result. The common tendency to regard destructive criticism as always easy and generally reprehensible is one that I do not share; indeed I doubt if it could be acquiesced in by any sensible person making a frank survey of the intellectual world of today. We cannot but be struck by the remarkable prevalence of systems of doctrine, by their loudness, their confusion, and their deleterious effect on conduct. In all these systems the most indulgent examination will find little evidence of really enterprising thought, but it will find a great deal of reconditioned lumber, at its best of a low order of reality and now used to justify the lazier, the uglier and the baser inclinations of the human spirit. At no time in the history of the intellect has the sanitary work of destructive criticism been more needful.

CORRECTION OF THOUGHT

Although one might be reluctant to accept the orthodox view that destruction is justified only as a preliminary to rebuilding, we can all agree that the one is an excellent preparation for the other. If we have learnt to distrust the validity of the operations of the intellect, we at least have gained the advantage of looking at its proceedings with a new objectivity. If we have been expelled from our rationalistic paradise, at least the world is all before us where to choose.

To throw the helve after the hatchet is proverbially the temptation to which disappointment exposes us. It is not surprising therefore that we are sometimes advised, by what seems to be a growing body of opinion, actually to abandon the use of reason. This advice is, I suspect, more often founded on a dislike for the conclusions of reason than on any radical doubt of their validity. We possess in reason an instrument that is powerful but admittedly very awkward to handle, and apt to pinch our fingers or jump back on our shins. It seems more sensible and less pusillanimous to learn how to use it rather than to throw it away. On attempts to make the intellect a practical and handy implement a truly enormous amount of very difficult work has been done. It is almost impossible to overstate the power and the ingenuity that have been given to the study of logic and to the relations of language and meaning. What little I know of these prodigies I regard with awe, but with an uneasiness that, in spite of the best will in the world, remains incurable. Each seems to promise that with a little more polishing, a screw tightened here and a nut adjusted there, the intellect will at last have been made the perfect instrument. If however, as I have tried to indicate, the whole instrument is subject to fundamental and incurable deflections, its operations cannot be rectified by the mere detailed adjustment of its inner machinery. Indeed the perfection of its inner mechanism may even exaggerate its total error, for no-one is more commonly impenetrable to ideas than the master of dialectic.

For a good deal longer than 2000 years the ablest men of every age have been fidgeting with the mechanism of the intellect in the hope of helping mankind to think and therefore behave reasonably. The state of the world today cannot but suggest that if practical thought is to become strong enough to help in saving our social systems from their increasing confusions, some more radical corrective is necessary.

The correction of instrumental errors is a familiar idea in practical science. The maker, having turned out as perfect an instrument as he knows how, studies the quality of its performance. Any error now found is to be dealt with not by tinkering with the machine but by having the constancy and amount of it carefully estimated and stated in a form that can be applied to the results. It is this method that forces itself upon us in determining the function of the intellect and rendering it fully available. Psychology has told us a great deal about the working of the mind and in an incidental way about its liabilities to error; but it has not systematically undertaken just this special practical task of, as it were, calibrating the intellect for the contemplation of ordinary experience. Unless such a work can be done it seems probable that the ominous fatuity and confusion that mark our social and political affairs must continue to increase.

We have defined our problem and indicated the direction in which its solution seems to lie. The end of so long an argument is no place to examine in detail the ways in which this solution is to be applied. It would however be too gross a failure in enterprise if I were not to set out in plain terms a few crude examples of such application which we can all put to use.

In the first place we must get rid of the disastrous belief that there is any activity of the mind corresponding with the conception of pure reason. The mind has no such function. All processes of reasoning, however abstract, are participated in and influenced

by feeling. We cannot separate off the reasoning process as such and set it to work in an emotional vacuum. What we can do is to suspect the grosser cases of the effect of feeling and to make an appropriate correction. There are many emotional states of which the action may be so deeply masked that it is impossible to detect them at work by direct observation. Such for example are the influence of nationalism, religion, personal vanity and fear—of death, of cruelty, of humiliation. Do not let us nourish the delusion that we can catch these in action and cast them out. We can tame them a little—only perhaps to make them more insidious—but even in the most dispassioned train of reasoning they are apt to exercise a steady treacherous pressure.

There is probably no commoner error than that of supposing it to be possible by a direct effort and for the purpose of fair discussion to free the mind from preconception and prejudice about a given question. "Mind you I am looking at it without prejudice"; how often have all of us said that in such circumstances. It is always untrue. We should do well on these occasions to inquire closely by what precise mechanism this supernatural purgation has been effected.

We are accustomed to regard evidence as a very positive and objective thing, which we blandly pronounce conclusive or inadequate or what not in the appropriate circumstances. More reasonably science allows itself a certain amount of practical compromise and is willing for everyday purposes to accept quite a small amount of evidence for a phenomenon when it is consistent with its context. When, however, the context of a new phenomenon is thought to be incongruous, troubles are apt to arise, and perfectly respectable evidence be rejected. The history of the discovery of argon and of X rays admirably illustrates this. On both those occasions the insidious category of "experimental error" was able to conceal the truth for long periods—in the case of argon for no less than 100 years. Even science then shows that in practice its famous "experimental evidence" is no infallible safeguard against preconception.

In regions where the relatively unemotional air of the laboratory does not prevail, the influence of feeling easily becomes strong enough to deprive even highly respectable bodies of evidence of any serious value. It is for example a curious fact that in the very full discussions of spiritualistic phenomena attention has been chiefly concentrated on the dissection of the evidence itself. To the psychologist it is meanwhile obvious that testimony, of however irreproachable an appearance, which has been collected in the atmosphere of a strong desire to believe, must as a whole be subject to such deductions that its evidential value practically vanishes.

The last I shall produce of these rather random examples of how we may set about the correction of the rational process concerns the reception of new ideas. We like to suppose ourselves easily receptive of the new and that we are so by virtue of a natural mechanism. Unfortunately this is the exact opposite of the truth. The mind likes a strange idea as little as the body likes a strange protein, and resists it with a similar energy. It would not perhaps be too fanciful to say that a new idea is the most quickly acting antigen known to science. If we watch ourselves honestly we shall often find that we have begun to argue against a new idea even before it has been completely stated. I have no doubt that that last sentence has already met with repudiation—and shown how quickly the defence mechanism gets to work.

DERMATOMYOSITIS AND PROGRESSIVE SCLERODERMA

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Dermatomyositis was referred to not long ago (Sheldon et al. 1939) as a rare and mysterious disease. That it is an obscure condition is true, but it is doubtful whether it ought to be classed as rare in view of the number of cases that have been seen in London alone during the past two or three years. Moreover, as we shall see later, to the cases of dermatomyositis may be added the better-known progressive symmetrical scleroderma with sclerodactylia, which is only another aspect of the same disease process. It is the purpose of this article to emphasise the identity of dermatomyositis with progressive scleroderma, and to indicate the possible relation of these conditions to others concerning which our knowledge is more advanced.

MUSCULAR CHANGES

The muscles in symmetrical scleroderma with sclerodactylia and in dermatomyositis show precisely the same type of change though it varies in degree in individual cases. The skeletal muscles are chiefly involved, but in severe cases those of the palate and pharynx are also affected, so that the symptoms may resemble to some extent those of bulbar palsy. Muscular weakness in scleroderma has been recognised for many years, but the descriptions of the disease in textbooks give the impression that the sclerosing process invades the underlying muscles and destroys them by involvement of their interstitial connective tissue. Nixon, as long ago as 1903, pointed out that this was not the case; he reported four cases of scleroderma with muscular atrophy, and quoted 15 others published previously, two of which appear in the literature on dermatomyositis. Nixon was aware that muscular weakness is almost universal and not confined to the muscles immediately beneath the sclerodermatous skin, a fact which had been clearly demonstrated in earlier published accounts. Histological examination of such muscle shows that interstitial sclerosis plays no part in the destructive change that it undergoes. Interstitial fibrosis may, however, appear later when the muscle has become grossly atrophied. The occurrence of extreme myopathy in scleroderma is well illustrated by the following case.

Case 1.—A man, aged 40, a shoemaker, first noticed Raynaud's symptoms in the fingers, which subsequently became stiff owing to sclerodactylia so that they could not be fully extended. These symptoms were accompanied by progressive weakness so that he became unable to work for more than short periods. He presented himself at the outpatient department of St. Thomas's Hospital some months after the onset of the symptoms. At that time the fingers were slightly flexed owing to sclerodactylia, and the face presented the usual sclerodermatous mask; he showed generalised wasting; the arms could not be fully extended owing to contracture of the biceps; he could not rise from the ground without help; the voice was nasal and somewhat feeble. On admission to hospital he was found to have some difficulty in swallowing; radiography revealed an apparent obstruction at about the junction of the upper and middle thirds of the œsophagus. He improved with complete rest

and was allowed to return to his work. He was readmitted some 5 months later. His general weakness had become more pronounced, all the muscles being atrophied. The speech was so nasal that it could not be understood and was almost inaudible; he had great difficulty in swallowing. The movements of the chest were limited, not by scleroderma, which had always been quite superficial, but by muscular weakness. He developed hypostatic pulmonary congestion and died 5 weeks after admission. Post mortem there was great wasting of all the muscle tissue; the heart muscle was flabby. Both lungs showed evidence of bronchopneumonia and bronchitis. The brain, pituitary and adrenals appeared to be normal; the left testicle was missing. The thyroid was about normal in weight, but showed well-marked histological alterations; these will be discussed later. As there was no sign of obstruction in the œsophagus the X-ray appearance must have been due to slow transit of the bolus owing to weakness of the œsophageal musculature. Death was due to bronchopneumonia.

Myasthenia may not always be present in progressive scleroderma but we have confirmed its existence in every case which we have seen since we thought of looking for it. When the myasthenia is of mild degree it may perhaps be overlooked, but it can usually be detected by some simple test, such as making the patient rise from the ground, or from a low chair. We have experience of many such cases, of which the following is an example, and others are reported in the literature.

CASE 2.—A woman of 55. The disease began with Raynaud's symptoms, accompanied by stiffness of the fingers and tightness of the lips, 9 months before she came under observation. No complaint of weakness was made, but inquiry elicited that she had lost much muscular strength, and that she had suffered from more or less constant pain in one thigh; a piece of muscle excised from this thigh exhibited the histological changes characteristic of the disease.

The nature of the myasthenia in scleroderma seems to have been overlooked to some extent, though it was described by Nixon (1903 and 1907) and by others before and since his publications. Some of the cases have been diagnosed as scleroderma in conjunction with Addison's disease. In those that have been termed dermatomyositis muscular weakness has often been extreme, but often it has been insidious in onset and has pursued a chronic course.

CUTANEOUS AND VASCULAR CHANGES

The existence of the same muscular changes in both dermatomyositis and scleroderma would not alone justify the conclusion that these diseases are varying aspects of the same process, but support for this view is afforded by the fact that the cutaneous and vascular changes are also of the same order in both; such differences as exist are no greater than those seen, for example, in the acute and fixed forms of lupus erythematosus.

Raynaud's symptoms may appear early in both conditions, particularly in sclerodactylia in which they are almost constantly present, but less commonly in dermatomyositis. In sclerodactylia they may precede other changes by some years. There seems to be some relationship between these symptoms and the density of the accompanying sclerodermatous changes in the fingers. Again, œdema, or erythema and œdema, affecting the face or the face, hands, and forearms simultaneously, and sometimes other parts, is an early symptom in both conditions. The skin, even in dense scleroderma, will often pit on digital pressure. The disappearance or diminution of the œdematous phase is always followed in chronic cases by sclerosis; this may be very superficial, so that the skin cannot be pinched up with quite the normal facility, or it may be dense. When superficial, the scleroderma is often accompanied by telangiectases and pigmentation, generally arranged in a variegated pattern and often resembling lupus erythematosus. Such cases are generally called dermatomyositis or poikilodermatomyositis. When the scleroderma is dense, though pigmentation is sometimes present, these variegated superficial changes are usually absent. Perhaps the vessels are destroyed by the sclerosing process as well as the follicles, sebaceous glands and such sweat-glands as may be involved in it.

The distribution of the cutaneous changes is the same in both conditions, though it varies in extent in different cases. During the last few years we have seen all gradations between the acute œdematous and erythematous cutaneous change of an early dermatomyositis and the dense sclerosis of sclerodactylia.*

RELATION BETWEEN MUSCLE CHANGES IN DERMATOMYOSITIS AND THYROTOXICOSIS

Dudgeon and Urquhart, in 1926, described certain changes in the skeletal muscles and in the extrinsic muscle of the eyeball in thyrotoxicosis. In these muscles dense focal collections of lymphocytes were

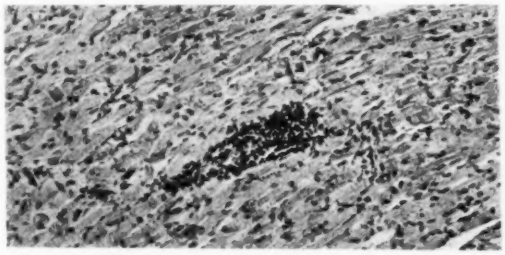

FIG. 1—Eye muscle from a case of Graves's disease showing slight muscular degeneration and focal lymphocytic infiltration. (Kindly lent by Dr. J. Bamforth.)

found, and in their neighbourhood atrophy of the muscles-fibres in varying degree (see fig. 1). In discussing these findings Dudgeon and Urquhart drew attention to the following points: (1) Lymphorrhages similar to those observed by them in Graves's disease were described by Buzzard in myasthenia gravis; (2) Graves's disease has been known to occur sometimes in combination with myasthenia gravis; (3) Buzzard and Greenfield, in discussing the morbid anatomy of myasthenia gravis, wrote: "the only characteristic feature is the presence of cellular deposits in many and various organs of the body, and particularly in the skeletal muscles." Dudgeon and Urquhart stated that the pathological findings in the muscles in myasthenia gravis referred to in the literature were exactly similar to their findings in exophthalmic goitre, while the occasional association of the two diseases, and the fact that enlargement of the thymus gland is common in both myasthenia gravis and Graves's disease, were facts which served to link these two diseases together. Similar changes had not been observed in control muscles nor had they been seen by them in diseases other than those referred to.

* For accounts of cases of dermatomyositis seen in London or recorded in recent English literature see Bamber (1936), Bonham-Carter (1938), Dowling (1936 and 1939), Dowling and Freudenthal (1938), Evans (1937), Hendry and Anderson (1939), Ingram and Stewart (1934), Parkes Weber and Gray (1924), Semon (1937), Sheldon et al. (1939), and Stuckey (1935).

Rake (1931) described the muscular changes that he found in a case of scleroderma and sclerodactylia with Raynaud's disease on which he performed a complete post-mortem examination. Shrunken hyaline and dark-staining fibres were observed to lie intermingled with fibres which were swollen, pale, and apparently disintegrated, so that individual fibres were easily seen. The cross-striation could still be seen in the shrunken fibres, but not in the swollen ones. The nuclei of the sarcolemma sheaths around the former were approximated, and appeared almost as continuous lines. Some of these fibres were tortuous and whorled. There were few apparently normal fibres. These changes are identical with those seen in case 2 described in this paper (fig. 2).

A piece of muscle removed from case 1 described above shows complete disintegration of many of the muscle-fibres, and empty sarcolemma sheaths are apparent in places (fig. 3). The nuclei of the sarcolemma are multiplied and arranged in lines. Here and there are dense focal collections of lymphocytes, often situated around a blood-vessel (fig. 4). The late Prof. L. S. Dudgeon examined these sections last September and he was immediately struck by the close resemblance between the changes in these sections and those in thyrotoxicosis, which he had described in 1926. There is, indeed, a remarkable similarity between them (compare fig. 5).

Precisely the same changes have been seen in varying degree in many cases of dermatomyositis that have been published. They are degenerative rather than inflammatory; the focal collections of lymphocytes appear only when disintegration is advanced. The cutaneous changes also are degenerative; inflammatory changes, though they might be expected to be present in the more acute phase of the disease, are on the whole conspicuous by their absence. Parkes Weber and Gray stated that the appearances in a case that they published in 1924 suggested a toxic degenerative process, and there seems no reason to depart from their view.

That the muscles in dermatomyositis might show signs of damage similar to those found in thyrotoxicosis was suggested by the fact that both diseases

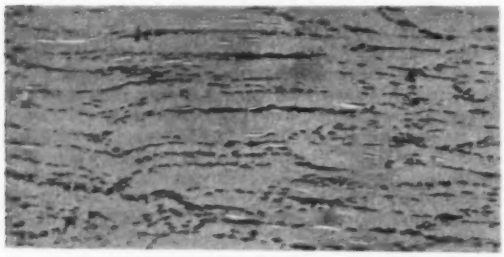

FIG. 2 (case 2)—Bundles hyalinised, cross-striation absent, nuclei increased and arranged in rows along the sarcolemma.

show well-marked disturbances in creatine and carbohydrate metabolism (Griffiths 1939); these disturbances are also a feature of myasthenia gravis. The discovery that the muscle changes in all three conditions show almost identical changes was indeed startling. From the clinical aspects of these diseases it could hardly be expected that such would be the case, but now we can perceive that, so far as the muscles are concerned, the difference is probably one of degree only. Clinically, the myasthenia of Graves's

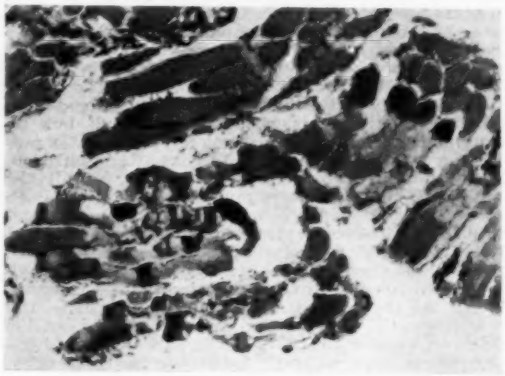

FIG. 3 (case 1)—Gross disintegration of muscle. Bundles hyalinised, in parts broken to pieces. The bundles are faintly stained in some places, in others (right margin) they have almost disappeared. Cross-striation entirely absent.

disease is usually less striking than the muscular atrophy and weakness of the more severe forms of myopathic scleroderma or dermatomyositis, and one section of Dudgeon's series, from the extrinsic muscles of the eyeball, on examination by Freudenthal and ourselves was clearly less severely affected than would be the case in severe dermatomyositis. Moreover, the myopathy of myasthenia gravis differs from that of scleroderma in that the former will often respond to prostigmine, whereas the latter, even in relatively mild cases, is completed unaffected. The reason for this difference is readily apparent when a muscle from a case of severe myopathic scleroderma is examined microscopically; it is evident that nothing could restore its function, even for a moment.

In discussing with Dr. C. P. Symonds the question of a possible link between the myasthenia of dermatomyositis and that of Graves's disease our attention was drawn to the thyrotoxic myopathies in which the muscular symptoms, in his opinion, correspond quite closely to those of dermatomyositis. Starling, Darke and Hunt (1938) have described two such cases recently. The patients were males, 43 and 63 years of age. The earliest symptoms were severe weakness and muscular atrophy while later a goitre and tachycardia developed. Both patients recovered after thyroidectomy. In a third case reported by Heuer (1916), that of a man of 23, general weakness and muscular atrophy, vomiting, shortness of breath, difficulty in swallowing, nasal speech, and double vision were associated with a goitre and exophthalmos. The condition was diagnosed as myasthenia gravis and exophthalmic goitre, but Brain (1938) considered it to be a case of thyrotoxic myopathy with exophthalmic ophthalmoplegia. It seems possible, therefore, that other cases described as myasthenia gravis associated with exophthalmic goitre may have belonged to the thyrotoxic myopathies.

As far as can be judged from Starling's cases muscular weakness developed quite a long while before other symptoms of thyrotoxicosis, certainly before any enlargement of the thyroid became evident, and in one long before the appearance of tachycardia. The early history of the latter case appears to suggest either that the muscles may be affected in the absence of enlargement of the thyroid,

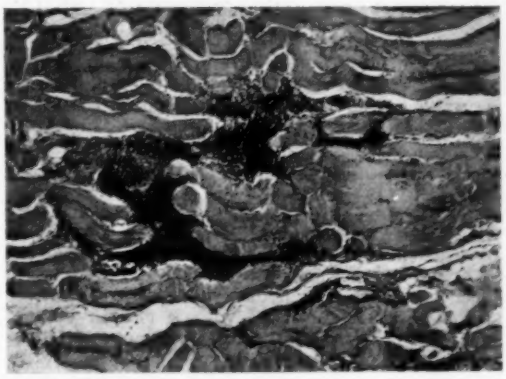

FIG. 4 (case 1)—Muscle bundles hyalinised and caked together in places, with areas staining faintly. Dense focal lymphocytic infiltration.

rapid pulse and tremor, or that thyroxine intoxication alone does not account for the whole of the symptomatology of Graves's disease. If the latter were true it would be possible to imagine a link between the myasthenia of exophthalmic goitre, or thyrotoxic myopathy, and that of scleroderma and dermatomyositis. On the face of it there is very little evidence of thyroxine intoxication in the two last-named conditions. There was a history of Graves's disease, treated by X rays, in a case reported by Gordon (1937) of scleroderma with sclerodactylia, and exophthalmos had persisted, but we have not encountered any others. We should emphasise that progressive symmetrical scleroderma only is being considered here, not circumscribed scleroderma, which has often been found in association with Graves's disease (Sequeira 1916, Lortat-Jacob et al. 1929). Morphœa and its relationship with progressive scleroderma is no part of the present discussion. In progressive scleroderma and in dermatomyositis the pulse-rate is rapid only in severe cases in which the heart muscle is probably involved; there is no tremor and no exophthalmos, and the temperament of the patients we have seen is totally different from that found in Graves's disease.

The basal-metabolic rate is often slightly raised in scleroderma and dermatomyositis, to judge from reported cases and personal experience. Thus in eight cases in the French literature the B.M.R. varied from + 8 to + 35 per cent. (Hudelo and Rabut 1929, Hufschmitt 1929, Lortat-Jacob et al. 1929, Weissenbach et al. 1938). In seven personal cases the rate was somewhat above normal in four and slightly subnormal in three. In case 1 in this paper the B.M.R. was +23, +21 and +13 per cent. in May and June, 1938, and normal in October of that year, when the patient had become very ill.

CHANGES IN THE THYROID

The recorded material on the question of thyroid changes in progressive scleroderma is rather scanty. In seven cases described in the literature the thyroid was found to be considerably smaller than normal in four (Hektoen 1897, Matsui 1924), and at the same time to be the seat of more or less extensive fibrotic changes, with atrophy of the follicles. In two, though normal in size, similar fibrotic changes are described, with groups of atrophic follicles (Matsui 1924, Rake 1931). In another case reported by Gordon (1929) that of a woman who died within a year of the onset of the illness, appearances similar to those of colloid goitre, with some increase in stroma, were present. In twelve additional cases quoted from post-war literature in the Jadassohn Handbuch für Dermatologie, changes in the thyroid are described in all, most often fibrosis with atrophy of the follicles. In one of our own cases, a very œdematous and rather rapidly fatal dermatomyositis, the histological changes in the thyroid were characteristic of colloid goitre. Sections from the thyroid of case 1 in this paper were examined by Prof. G. W. Nicholson, who stated that they exhibit the changes characteristic of a fibrous colloid goitre. Although there seem to be quite definite alterations in the structure of the thyroid in progressive scleroderma their true significance cannot at the moment be appreciated.

METABOLIC DISTURBANCES

Dermatomyositis and scleroderma are characterised by certain well-marked metabolic disturbances. In all cases the urine contains considerable amounts of creatine, often amounting to as much as 600 mg. or more in the 24 hours. The creatinine output, which in the normal subject is approximately constant, shows marked fluctuations from day to day; it is sometimes excessive, sometimes rather low. In the more severe stages of the disease there is a general tendency for the creatinine excretion to be subnormal owing, no doubt, to a reduction in the total mass of functioning muscle tissue. We have also detected disturbances in the metabolism of carbohydrate. Thus there may, for instance, be a loss of carbohydrate tolerance associated with an impairment of the peripheral action of insulin, resulting in a small or absent arteriovenous sugar difference after glucose and insulin. The magnitude of these changes varies from case to case. Similar alterations in carbohydrate metabolism occur in both toxic and non-toxic goitre, in myasthenia gravis, and in acromegaly, even in the absence of the hyperthyroidism which sometimes accompanies the last-named condition (Griffiths 1939). Thus it would appear that not only are dermatomyositis, myasthenia gravis and thyroid disorders

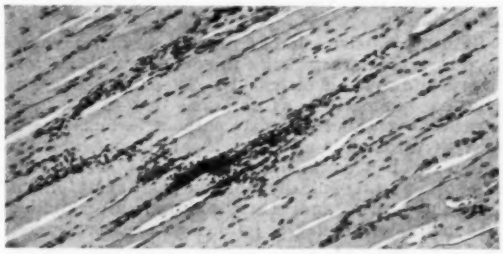

FIG. 5 (case 1)—Pectoral muscle. Changes about intermediate between those seen in figs. 2 and 3, and very similar to fig. 1.

linked by similar histological changes in the muscles, but also by the existence in all of metabolic disturbances resulting in creatinuria and interference with the peripheral action of insulin.

Decalcification of the bones has been observed repeatedly in symmetrical scleroderma, and in dermatomyositis in a few instances (Stuckey 1935, Evans 1937). Probably it has not often been looked for in dermatomyositis. Generalised osteoporosis was demonstrable in the first case quoted in this paper

some weeks before death, though it was absent 9 months previously. The deposition of calcium salts in the skin is quite common in scleroderma, especially in the fingers in sclerodactylia (Thibierge Weissenbach syndrome), and according to Petges (1933) it has been seen occasionally in dermatomyositis.

Hunter (1930–31) found that controlled radiograms in exophthalmic goitre revealed poverty of calcium in less than half the cases examined, and he quotes Aub, Heath and Ropes, who found that hyperthyroidism is associated with greatly increased excretion of calcium in the urine. These authors found also that the administration of thyroid to two normal subjects produced the same result. Hunter also quotes several recorded instances of severe osteoporosis in hyperthyroidism. In symmetrical scleroderma the calcium and phosphorus balances were studied in two cases by Cornbleet and Struck (1937). They found a positive balance in both, and thought that the retention of calcium and phosphorus could be accounted for by diminished excretion of these elements in the urine. The calcium and phosphorus in the blood of our patients has been normal; according to Hunter normal figures are also found in exophthalmic goitre.

CONCLUSION

Dermatomyositis and progressive symmetrical scleroderma are one and the same disease, a process which involves chiefly the blood-vessels, the skin and the skeletal muscles throughout the body. It has been shown that the muscles in both conditions undergo the same histological alteration. The muscular symptoms also are the same in both diseases, consisting of mild to extremely severe myasthenia. The cutaneous and vascular changes are of the same order. Raynaud's symptoms arise in both, though more frequently in scleroderma with sclerodactylia than in the type of case that is usually termed dermatomyositis. The initial cutaneous symptoms in both conditions is usually œdema, and the same regions are affected with remarkable constancy; when the œdematous phase settles down the skin becomes densely or superficially sclerosed. In both muscle and skin the changes are degenerative, not inflammatory.

Both progressive scleroderma and dermatomyositis have certain characteristics in common with thyroid disease and myasthenia gravis. The common factors may be summarised as follows: (1) the skeletal muscles show exactly similar pathological changes in both thyrotoxicosis and myasthenia gravis, and the muscular changes in dermatomyositis are of the same order; (2) clinically, the muscular symptoms in dermatomyositis and thyrotoxicosis are similar, though different in degree; (3) creatinuria is common to toxic and, in many cases, non-toxic goitre, myasthenia gravis and dermatomyositis; (4) certain disturbances in carbohydrate metabolism in thyroid disease have their counterpart in dermatomyositis, and calcium metabolism is affected in both; and (5) histologically normal thyroids are not found in any case of progressive scleroderma.

These facts seem to be sufficiently striking to suggest that there is possibly a link between dermatomyositis or progressive scleroderma, thyrotoxicosis and myasthenia gravis.

We should like to express our indebtedness to Mr. K. S. MacDonald, photographer to University College Hospital, for making the photomicrographs.

(*References at foot of next column*)

DIAGNOSIS OF HYDATIDIFORM MOLE BY BIOLOGICAL ASSAY

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LATE HOUSE-SURGEON OF THE UNIT

IN 1927 Aschheim and Zondek described the biological effect of the urine of pregnant women on the ovary of the mouse. Later Aschheim (1930) stated that in cases of hydatidiform mole a positive reaction could be obtained with a twelfth of the amount of urine usually necessary to produce this effect. Since the introduction by Friedman (1929) of the test bearing his name, it has been widely used as a more rapid and convenient method for the diagnosis of pregnancy than the Aschheim-Zondek (A.-Z.) reaction. Various workers have used the Friedman test for the diagnosis of hydatidiform mole or of chorionepithelioma, but there has been a wide divergence of opinion as to the technique and interpretation of both tests in this application.

Zondek (1931) described a technique by which each of ten mice received a slightly different dose of urine. In this way concentrations of gonadotropic hormone of 27,770–250,000 mouse units per litre (M.U./L.) could be estimated; he stated that any value above 50,000 M.U./L was abnormal in pregnancy. In 1937 he stated more precisely that early pregnancies showed 5000–30,000 M.U./L., that 200,000 M.U./L. must be present before hydatidiform mole could be diagnosed, and that the presence of the hormone must be demonstrated in the cerebrospinal fluid.

Crew (1936, 1937) from his experience of 7000 pregnancy tests deduced that an A.-Z. test positive in a dilution of 1 in 10 was so rare that the presence of abnormal tissue should be suspected; he considered a test positive in a dilution of 1 in 100 to be diagnostic of hydatidiform mole.

* Holding the British Drug Houses research fellowship.

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Using rabbits, Mazer (1933) corrected his earlier statement (Mazer and Goldstein 1932) that a positive Friedman test with less than 1 c.cm. of urine was diagnostic of hydatidiform mole, and he substituted the figure 0·06 c.cm., which amount was confirmed by Dabney et al. (1933, 1934), who showed that a fiftieth of the amount of urine usually employed (0·4 c.cm. instead of 20 c.cm.) gave a positive Friedman test in a case in which no hydatidiform mole was found; and that in a case of hydatidiform mole a positive reaction was obtained with 0·06 c.cm.

Schoeneck (1936) obtained a curve of the excretion of gonadotropic hormone at different periods of pregnancy, using the minimal reactive dose in the immature rabbit as his method of assay. He reported only one normal pregnancy which gave a positive reaction with as little as 0·05 c.cm. of urine. Sixteen patients with pernicious vomiting of pregnancy gave positive reactions with 0·025–0·0125 c.cm. Two cases in which hydatidiform-mole tissue was found gave positive reactions with 0·0066 and 0·0063 c.cm.

Owing to the different methods of assay employed comparison of these findings is impossible, but there seems to be general agreement that the excretion of gonadotropic hormone in normal pregnancy can reach higher levels than was at first thought. The case which follows illustrates some of the difficulties and dangers of a diagnosis of hydatidiform mole based on biological assay.

INVESTIGATION OF A CASE

The Friedman test was done on immature rabbits (dealer's stock) isolated for at least three weeks. Two intravenous injections of 10 c.cm. of urine were given at 24 hours' interval, the animal being killed 48 hours after the first injection. Fresh early-morning specimens of urine without preservative were used; any dilutions of urine were made with normal saline, the total amount and timing of the injections being kept as before. All tests were done in duplicate and the results expressed as the minimal reactive dose. In an attempt to express the results in mouse units the modification of the A.-Z. test recommended by Zondek (1931) was used in seven cases but the individual variation in sensitivity was too great in the mice at our disposal for this test to be of any value in this inquiry.

The patient was a nullipara, aged 27, with no abnormalities in past, family, or menstrual history. She first attended at the antenatal clinic on Oct. 26, 1937. The date of her last menstrual period was July 30. Her pregnancy was then 11 weeks old and considered normal except for a history of brown vaginal discharge for one day on Oct. 23. Wassermann reaction negative. Blood-pressure 120/60.

On Nov. 17 she returned with a history of bleeding per vaginam since the last examination, and headache and visual disturbance for forty-eight hours. Blood-pressure 140/80. Nothing abnormal was detected in her urine. She was admitted at once. Her fundus uteri suggested a 20 weeks' pregnancy and was hard and tender. The estimated duration of pregnancy was 15 weeks.

On Nov. 21 Friedman tests gave the following results: undiluted (20 c.cm.) positive, 1 in 100 (0·2 c.cm.) positive, 1 in 200 (0·1 c.cm.) positive, and 1 in 300 (0·06 c.cm.) negative.

On the 26th radiography showed a fœtus aged 16 weeks. Friedman tests were repeated and confirmed. A.-Z. tests were: 1 in 10 positive and 1 in 100 positive. Several small amounts of blood were lost, but no vesicles were seen. A diagnosis of hydatidiform mole in a twin pregnancy was considered, but expectant treatment was continued.

On Dec. 6 the uterus was of the size normal for a 22 weeks' pregnancy. Amenorrhœa had continued 17 weeks. The uterus was less tender. Blood-pressure 105/50.

On the 15th radiography showed that the fœtus was considerably larger and the fœtal parts normal. Friedman tests were: 1 in 200 (0·1 c.cm.) negative and undiluted (20 c.cm.) positive.

On the 22nd a ten-inch fœtus of 18 weeks' development and a blood-clot (110 g.) were expelled. The fœtus had been dead two or three days. The placenta was examined macroscopically and sections were cut from several areas; no evidence of any vesicular degeneration could be found (cf. Masani 1937). The urine of this patient never showed any albumin, and all renal-function tests were normal. The Wassermann reaction was negative when repeated. Friedman tests since discharge have been negative on two occasions (Jan. 1 and April 23, 1938).

FURTHER INQUIRIES

An attempt was made to investigate the upper limit of normality for the excretion of gonadotropic hormone in pregnancy. In view of the findings of Browne and Venning (1936) that the urinary excretion of these substances during pregnancy was at its maximum at 10–12 weeks, five consecutive cases attending the antenatal clinic at this stage of pregnancy were subjected to assay (see table). Later, urine was obtained from two cases of hydatidiform mole. Although in one case expulsion of the mole had begun, the Friedman test was positive with 0·033 c.cm. and negative with 0·028 c.cm. of urine. Assay in mice showed more than 200,000 M.U./L. of gonadotropic hormone. In the other case, in which the mole was actively growing, the Friedman test was positive with 0·01 c.cm. and negative with 0·005 c.cm. of urine. One case of hyperemesis gravidarum of moderate severity was investigated, the patient being 11 weeks pregnant. The Friedman test was positive with 0·04 c.cm. of urine. One week later it was positive with 0·06 c.cm. and negative with 0·05 c.cm. urine. The quantitative test in mice was inconclusive.

FRIEDMAN TESTS IN NORMAL AND IN ABNORMAL PREGNANCIES

—	Duration of pregnancy (weeks)	Friedman test (urine c.cm.) Pos.	Neg.	Remarks
Normal pregnancy	6	1·0	0·4	—
	10–12	0·13	0·10	—
	10–12	0·20	0·13	—
	14	—	0·40	—
	12–14	0·20	0·13	—
	12–14	0·40	0·20	—
Accidental hæmorrhage*	15	0·10	0·06	—
	18	20·0†	0·10	—
Hydatidiform mole	—	0·033	0·028	Mole being expelled
	—	0·01	0·005	Mole growing actively
Hyperemesis gravidarum	11	0·04	—	Urine 420 c.cm. daily
	12	0·06	0·05	" 830 daily

* Case reported in this article.
† These were the only assays made on this date.

DISCUSSION

The peak of the excretion of gonadotropic hormone during pregnancy has been reported at times as far apart as the thirtieth day of pregnancy (Evans, Kohls, and Wonder 1937) and the seventh month (Kennedy 1933). Browne and Venning (1936) and Schoeneck (1936) agree in finding the peak between the eighth and tenth weeks; this is supported by the previous findings of one of us on the gonado-

tropic hormone in the blood (Boycott and Rowlands 1938). This peak lasts only a very short time in any one woman; according to Schoeneck, during this peak period as little urine as 0·1 c.cm. or rarely 0·05 c.cm. will produce a positive test in a rabbit. It is at this period of pregnancy that the diagnosis of hydatidiform mole is often mooted.

Higher values than those at the peak period of normal pregnancy are obtained in hyperemesis gravidarum, in which the minimal reactive dose may vary from 0·06 to 0·012 c.cm. That high values are found in all forms of vomiting in pregnancy (Schoeneck 1936) suggests that there is a causal relationship between the two phenomena; but reduction of the urinary output is often considerable in these cases, and the hormone output should be calculated on a daily basis rather than per litre. The concentration caused by the diminished output of urine does not, however, account entirely for the higher figures obtained.

Such comparable evidence as there is goes to show that some women with hydatidiform mole excrete more gonadotropic hormone than is found in any other disorder of pregnancy. On the other hand, cases of hydatidiform mole have been reported which gave a negative test in a rabbit (Reeb, Neerson, and Klein 1934) and showed such large minimal reactive doses as 5·0 c.cm. and 0·5 c.cm. (Schoeneck 1936); these were all cases in which it was stated that active proliferation was at an end. The overlap which evidently occurs is wide; it will be at its widest in cases in which there is vomiting and which are between the eighth and tenth weeks of pregnancy or are complicated by a hydatidiform mole which is not growing rapidly. As far as can be ascertained from the small number of observations published, the majority of cases of active hydatidiform mole give values not very far outside this zone of overlap. The case described in detail in this article showed a maximal excretion one-tenth of that found in the case of active hydatidiform mole and one-third of that in the case in which the mole was in process of expulsion. That the patient was not treated as a case of hydatidiform mole was mainly on the grounds of the absence of the characteristic "doughy" uterus, the general improvement in her condition, and the cessation of the hæmorrhages; the radiological evidence was of considerable value.

Biological testing is used extensively for the diagnosis of the recurrence of hydatidiform mole or of chorionepithelioma. The case reported by Kobak (1938), in which a normal ten weeks' pregnancy was mistaken for a recurrence on the evidence of a high level of gonadotropic hormone in the urine and hysterectomy was performed, shows that even in this connexion biological testing has its dangers.

The use of the method of the minimal reactive dose in single rabbits is quick and gives surprisingly good results; our tests were done on these cases in duplicate, and there was no instance of absolute disagreement between the pair. It would obviously be preferable to employ the method depending on the increase in ovary weight in the immature rat, using batches of 10–20 animals (Boycott and Rowlands 1938); it is, however, rather lengthy and intricate when an answer is needed to assist in diagnosis.

CONCLUSIONS

(1) Excretion of gonadotropic hormone in normal pregnancy may reach a higher level than is usually recognised.

(2) The maximal excretion in normal pregnancy occurs at about the stage of pregnancy when the presence of hydatidiform mole is likely to be suspected.

(3) Although it is probable that in some cases of hydatidiform mole a larger excretion of gonadotropic hormone occurs than in any other condition (except chorionepithelioma), there is a wide range of excretion values in which no distinction between this and other conditions is possible.

(4) Diagnosis of hydatidiform mole on the biological assay of gonadotropic hormone alone is unreliable.

Our thanks are due to Prof. F. J. Browne for his advice and encouragement; to Prof. James Young for the specimens of urine from the cases of hydatidiform mole; and to the Medical Research Council for a grant to one of us (M. B.) for technical assistance.

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MECHANICAL RESPIRATION

TREATMENT OF TWENTY-ONE CASES

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Of 129 patients with poliomyelitis admitted to the Western Hospital (the L.C.C. centre for this disease) during the past four and a half years, 17 showed symptoms of respiratory embarrassment. Of these 14 were treated with an artificial respirator; 6 patients with diaphragmatic paralysis due to diphtheria and 1 with toxic polyneuritis were also treated by this method.

POLIOMYELITIS

Of these cases 5 were of the bulbar type; all died. Of the remaining 9, 6 are alive and progressing favourably; 3 of these, cases 8, 9 and 10 (see table), had intercostal paralysis only. Two had paralysis of the diaphragm and of some of the intercostals. One had paralysis of the diaphragm and weakness of the intercostals.

Cases with bulbar paralysis.—When much mucus was present in the pharynx it was cleared, as far as possible, by swabbing the back of the throat manually, by the use of the electrical suction apparatus and by a dose of atropine, gr. 1/200–1/100, which was given in an attempt to diminish further secretion, and repeated if necessary. Wilson (1932) found that atropine made the mucus stringy; this is true if frequent doses are given, but an initial dose seemed to help patients put in the machine for the first time. Postural drainage was also used. Tracheotomy was not done in any of our cases, though Wilson did it in a few who apparently gained some relief. With

some of the patients who were unconscious, with deep cyanosis and mucus pouring from the mouth, there was no time for more than a very hurried examination of diaphragm, intercostals and limbs, as treatment in the respirator seemed to be urgently needed. Cases 2 and 3 (see table) were of such a type.

POLIOMYELITIS CASES

Case and sex	Diaphragm		Intercostals		Bulbar paralysis	Duration of stay	Result
	Paralysed	Acting	Paralysed	Acting			
1 M	+	..	+	..	+	6 days	Died
2 F	+	..	..	Scarcely	+	46 hrs.	Died
3 M	+	..	+	..	+	2 „	Died
4 F	+	..	+	..	+	20 „	Died
5 M	+	..	..	Weakly	+	3 days	Died
6 M	+	..	+	..	..	58 „	Died
7 F	..	+	+	..	..	53 „	Died
8 F	..	+	+	..	..	31 „	Alive
9 M	..	+	+	..	..	23 „	Alive
10 M	..	+	+	..	..	21 „	Alive
11 M	+	..	7 lower	..	..	20 „	Died
12 F	+	..	..	Weakly	..	19 „	Alive
13 F	+ L	..	6 lower	..	..	9 „	Alive
14 F	..	..	All R paralysed and 7 lower L	4 upper L	..	36 „	Alive*

* After 6 days this patient had to be replaced in respirator for 2 and later 3 hours a day and is still, 3 months after admission, receiving this treatment.

It was, therefore, sometimes difficult to determine whether the respiratory embarrassment was due to 9th and 10th cranial nerve involvement or to both. In some patients who had much cyanosis when out of the machine, we made use of oxygen under pressure by the McKesson resuscitator while nursing attention was being given. The resuscitator was set to work at the same rate as the respirator with good effect; it can only be used when the airway is clear, lest mucus should be forced into the lungs.

Lesions found post mortem in the respiratory system were œdematous lungs, areas of softening round bronchi and inspired stomach contents in bronchi in case 1; œdema and collapse of the lungs, hæmorrhage and bronchopneumonia in case 4; and consolidation of the right base and a small patch of consolidation in the left base in case 5.

Other fatal cases.—Cases 6, 7 and 11 are of particular interest because they died after they had been removed from the respirator though two of them (6 and 11) had appeared to be comfortable.

Case 6, male, aged 16, had paralysis of the diaphragm and of all the intercostals. When placed in the machine he was immediately relieved. The diaphragm began acting 26 days later. He was in the respirator for 58 days and seemed to be comfortable after removal. He had a convulsion 11 days later with acute dilatation of the stomach and died in a few hours. Post mortem showed small patch of early bronchopneumonia in right lower lobe and there were small hæmorrhages in well-aerated lungs.

Case 11, male, aged 31, had paralysis of the diaphragm and the lower seven intercostals on both sides. He was very dyspnœic when placed in the machine and immensely relieved by it. Respirator treatment was continued for 18 days and he was apparently comfortable after removal. Thirty-nine days later, while under treatment at an orthopædic hospital, he developed acute œdema of the lungs and sudden respiratory failure, dying in 15 minutes. Permission for an autopsy could not be obtained.

Case 7, female, aged 3, had paralysis of all the intercostals and the diaphragm was very sluggish. The abdominal reflex was negative. She was very distressed until put into the respirator but greatly relieved by it and went to sleep. She was treated in the machine for 53 days. There was no intercostal recovery. On the 10th day after removal she developed abdominal distension which responded to treatment. She was returned to the machine, but the diaphragmatic action became weaker and she died with signs of collapse of the lung. This patient was never quite comfortable out of the machine, her respirations being somewhat jerky, though she was lively and played with her toys until the onset of distension. Post mortem complete collapse of upper lobes was found and congestive bronchitis with peribronchial chronic inflammatory reaction in rest of lung.

The pulse-rate was much the same whether the patients were in or out of the machine, ranging from 92 to 104 in the two older ones and from 92 to 112 in the child. In none of them was there intercostal recovery; the diaphragm began to act again though the abdominal reflex did not return, and there was serious embarrassment from abdominal distension. Possibly such cases ought to have respirator treatment for some hours each day; our numbers have been too small to enable us to form an opinion on this point. There seems to be no satisfactory criterion to enable us to decide when patients should be permanently removed from the respirator; the absence of cyanosis and dyspnœa does not afford sufficient guidance.

Landon (1932) found that of a group of cases of poliomyelitis with respiratory distress treated in the respirator who were, when discharged from hospital, able to breathe spontaneously, almost five times as many were dead at the end of 18 months as in the control group treated without the respirator. All had died of respiratory disease, and pneumonia, emphysema and apneumatosis were among the findings. His control group was not necessarily composed of the less serious cases, because the number of respirators at his disposal was limited, though he admits a natural inclination to rush a severe case to a respirator. He suggests as causes for respiratory sequelæ too great a negative pressure, too quick a rate or a difficulty in controlling the temperature of the air in the machine. Others have attributed the sequelæ to chronic anoxæmia. Emphysema was not found post mortem in our fatal cases, and in only one was there a patch of pneumonia. There was collapse of the upper lobes in case 7.

Cases still alive.—In three cases (8, 9 and 10) there was intercostal paralysis only.

Case 8, female, aged 10, appeared to be equally comfortable whether in or out of the respirator. Her abdominal reflex was absent. After six months the intercostals are still paralysed and the abdominal reflex is still absent.

Case 9, male, aged 7, on admission had all intercostals paralysed. Diaphragm acting, colour poor. Respirator gave almost instant relief. No intercostal recovery 5 months later but abdominal reflex present. Seems comfortable. Without respirator treatment this patient would probably have died.

Case 10, male, aged 6. On admission intercostals were not acting, the breathing was entirely diaphragmatic and the abdominal reflex absent. Slight moist sounds in throat but scarcely any visible mucus. Did not coöperate well at first—i.e., did not breathe synchronously with the machine but at a very quick rate (34–38). He nearly died when the machine was

stopped, so the rate was increased to 24 a minute and the negative pressure was raised from 15 to 20 cm. of water. Atropine gr. 1/200 was given and a mixture containing gr. 6 each of pot. brom. and chlor. hyd. The patient began to coöperate and was greatly relieved. In this case also respirator treatment seems to have saved life. The abdominal reflex is absent and the lower intercostals are still paralysed 3 months after the onset of the disease.

Cases 12, 13 and 14, females aged 5, 4 and 24, with partial paralysis of the intercostals and paralysis of the diaphragm are all alive. Case 14 is still in hospital and requires treatment for three hours a day 3 months after the onset of the disease.

In addition to the 14 cases of poliomyelitis mentioned above, there were 3 patients with respiratory embarrassment who were not treated in the respirator.

A B, male, aged 4. On admission diaphragm acting, lower six intercostals on both sides paralysed. Very little distressed though restless. Appears comfortable but there is still intercostal weakness 4 months after onset.

C D, male, aged 2. On admission diaphragm acting, left intercostals weak. Alive 6 months later, but the intercostals have not yet recovered.

E F, male, aged 13. Bulbar paralysis. Died before being put in respirator.

DIPHTHERIA AND TOXIC POLYNEURITIS

Of the 6 cases of diaphragmatic paralysis due to severe faucial diphtheria treated in the respirator, all had coincident pharyngeal paralysis and were very seriously ill. All but 2 showed improvement, though there were 4 deaths and only 2 recoveries; the machine thus appeared to be of some help.

Fatal cases of diphtheria.

Case 2, female, aged 8, admitted on 7th day; 340,000 units A.T. Paralysis: palatal 39th, pharyngeal 40th, diaphragmatic 48th day; placed in respirator but died after about 24 hours.

Case 3, female, aged 2 yrs. 11 mths., admitted on 8th day; 200,000 units A.T. Paralysis: pharyngeal 35th, diaphragmatic 39th day; placed in respirator for 8 days. Colour and respiration improved. Removed but developed collapse of right lung and died 5 days later.

Case 4, female, aged 4 yrs. 8 mths., admitted on 2nd day; 168,000 units A.T. Paralysis: palatal 19th, ciliary 39th, ext. rectus 36th, pharyngeal 40th, diaphragmatic 43rd day; placed in respirator. Colour improved but died after 24 hrs.

Case 6, female, aged 45, admitted on 5th day; 504,000 units A.T. Paralysis: ciliary 34th, palatal 39th, pharyngeal 48th, diaphragmatic 56th day; placed in respirator for approximately 16 hrs. with no evident relief. Died.

Recovered cases of diphtheria.

Case 1, female, aged 8, admitted on 4th day; 180,000 units A.T. Paralysis: pharyngeal 51st day, diaphragmatic 2 days later; placed in the respirator for 4 days. Recovered.

Case 5, female, aged 2 yrs. 6 mths., admitted on 5th day; 260,000 units A.T. Paralysis: pharyngeal 38th, diaphragmatic 43rd day; placed in respirator for 12 days. Recovered.

One case of toxic polyneuritis, in a woman aged 26, was also treated in the respirator. She had weakness of the intercostals and no diaphragmatic movement. She remained in the machine for 24 days with relief and finally recovered full respiratory movement.

SUMMARY

Of 21 cases of respiratory difficulty treated by mechanical respiration, all but 2 were treated in the Siebe-Gorman respirator; cases 2 and 10 were treated in the Both type. Of the 14 poliomyelitis cases, 6 (43 per cent.) are alive. In 4 of these recovery seemed improbable without the respirator treatment. Of the diphtheria cases, there were 2 recoveries and 4 deaths. One case of toxic polyneuritis was treated and recovered.

My thanks are due to Mr. A. Rocyn Jones, who has seen most of the cases; to Dr. George Beaumont for his encouragement; to Dr. W. G. Barnard, who did the post-mortem examinations; to Dr. H. West and Dr. G. Gray, who made it possible for me to follow up the cases; and to Dr. W. H. Kelleher, the medical superintendent of this hospital, for helpful suggestions.

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BITOT'S SPOTS IN CEYLON

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Bitot (1863) described lesions of the conjunctiva which were associated with night-blindness. He recorded 29 cases in the foundling hospital in Bordeaux in 1859–61. He described the lesions as not being inflammatory but as numerous small white specks or slender short lines aggregating into a pearly or silvery spot. They are placed laterally to the cornea and occur only as small dots medially to it. They are usually triangular but may be round or oval; in the former case the apex points externally and the base is near the corneal margin and is somewhat concave. In some cases the surface of the spots is rugose, and in others arranged in a series of wavy parallel lines. The following sentence (p. 288) shows the nature of these lesions: "Elles sont donc inhérentes au tissu sur lequel elles sont étalées; elles sont composées de couches qui ne sont pas d'une autre nature que l'épithélium. L'examen microscopique a dissipé toute espèce de doute sur ce point. Les taches héméralopiques sont une altération non encore décrite, une production squameuse spéciale de l'épithélium conjunctival."

Mori (1922) and Wolbach and Howe (1925) established many years later that the essential change was a deficiency of vitamin A which led to the formation of keratinising squamous epithelium in various mucous membranes; and it appears from the above that Bitot as early as 1863 recognised these changes in these lesions of the conjunctiva.

We have seen several hundred cases of changes in the bulbar conjunctiva of the eyes of malnourished children and others in Ceylon, which we have been accustomed to refer to as Bitot's spots.

The pathological changes, as seen by us, are of a definite type but do not conform to some of the descriptions given by other observers. For instance, Nixon and Nixon (1938) say that Bitot's spots are "characterized by small triangular white patches on the outer and inner sides of the cornea covered by white foam-like spots. . . . This xerosis or keratinization of the conjunctiva may extend to the cornea." Again, May and Wolff (1938) refer to the white patches of Bitot's spots as being "covered with what looked like foam." We have never seen Bitot's spots extend-

ing to the cornea, for we do not regard the changes in the cornea which occur in keratomalacia as extensions of Bitot's spots; and the spots in the great majority of our cases have in no way resembled foam.

The changes over the sclerotics which lead to the formation of Bitot's spots may be described as follows. They begin as slight thickening and pigmentation of

Left eye shows thickening, pigmentation, and white striated patches (Bitot's spots) of the temporal bulbar conjunctiva. This was also present in the right eye, but the nasal bulbar conjunctiva of both eyes was free from these changes.

the conjunctiva of the sclerotics; one or more of the blood-vessels running towards the cornea stand out as though dilated, and capillaries may be seen dipping vertically into the thickened epithelium; apparently they are slightly engorged. The thickening and pigmentation increase, and heaped up accumulations of epithelial cells arise. These accumulations are white, stand out in relief from the pigmented background, and are usually striated. They may be compared to a dab of chalk paste striated with a pin. The common situation of these striated patches is over the sclerotics of the temporal side; they have never been seen to reach the limbus, although they usually extend to one or two millimetres from the corneosclerotic junction (see left eye in figure). They are occasionally found over the sclerotics on the nasal side of the eye, but they have been seen in this situation in less than 2 per cent. of our cases. (Note the freedom from thickening and pigmentation over the nasal sclerotic of the right eye in the figure.) They often affect one eye only but may be bilateral. Usually Bitot's spots are triangular or oval, but occasionally they appear as numerous scattered striations several millimetres long and about 0·5 mm. wide. It is the white patches and not the diffuse thickening which we have called Bitot's spots. We have never seen ulceration of these spots. It appears probable that much increased pigmentation is likely to occur only among races with pigmented skins.

Bitot said that all his patients had night-blindness, but this has not been present in most of ours.

The Bitot's spots described above tend to be very chronic, and it is necessary to give large doses of fish-liver oils or concentrated preparations of vitamin A to clear them.

It may be that there are two forms of xerosis or keratinisation of the bulbar conjunctiva: an acute form in which the changes take place rapidly, forming loose accumulations of degenerate epithelium which appear foamy, and a chronic form in which the accumulations of epithelium take place more slowly and are more compact. If this is so, possibly the first form is more likely to occur as a rare condition in countries where diets deficient in vitamin A are not in common use, and the second form, as in our cases, will be seen among populations who have become more or less biologically adapted to diets deficient in this vitamin, and consequently their reactions to the deficiency are more chronic.

Concomitant signs of malnutrition.—In making nutritional surveys of the poorer classes in India, Ceylon, and other countries it has become customary to look for certain definite signs, including phrynoderma, a papular dry skin eruption due to deficiency of vitamin A; angular stomatitis; and superficial erosion of the tongue. The last two are almost certainly due to the same deficiency and will be alluded to as "sore mouth." We have attempted to discover a correlation between the presence of Bitot's spots and these signs of malnutrition. A correlation may be considered specific when two signs due to the same deficiency coexist in the same child; but a poor diet is seldom deficient in only one respect, and when signs due to different deficiencies coexist in the same child the correlation may be considered general.

In September, 1938, 976 children of the free schools in rural and town areas of the southern part of Ceylon were examined for various signs of malnutrition. Most of these schools were in the dry zone. Phrynoderma was present in 21 per cent. of the children, Bitot's spots in 5·6 per cent., and "sore mouth" in 4·8 per cent. In 62 per cent. of those with Bitot's spots there was also phrynoderma; whereas, if there were no specific or general correlation, only 21 per cent. of those with Bitot's spots would be expected to show this condition. In 3 per cent. of the children with Bitot's spots there was also "sore mouth"; which is less than the expected incidence.

A second survey was made in September, 1938, in the northern parts of Ceylon. Of 1497 children examined 4·9 per cent. had phrynoderma. Bitot's spots were not common among these children, only 0·7 per cent. being affected. "Sore mouth" was present in 19·8 per cent. But 25 per cent. of those with Bitot's spots also had phrynoderma, the incidence being five times greater than that expected without correlation; and 12 per cent. of those with Bitot's spots also had "sore mouth," which is less than the expected uncorrelated incidence. The accompanying table summarises these two surveys:—

SIGNS OF DEFICIENCY OF VITAMIN A IN SCHOOL-CHILDREN IN CEYLON

Area	Children examined	Phrynoderma	"Sore mouth"	Bitot's spots	Bitot's spots with phrynoderma	Bitot's spots with "sore mouth"
		Percentage				
Southern Ceylon	976	21·0	4·8	5·6	61·8	2·9
Northern Ceylon	1497	4·9	19·8	0·7	25·0	12·5

Epithelial thickening and pigmentation.—Many of the children of the poorer classes in Ceylon show some thickening and pigmentation of the conjunctiva over the sclerotics without the more advanced changes in the form of Bitot's spots; but much work will be necessary to define the range of texture and pigmentation of the sclerotic conjunctiva of races with dark skins before these signs may be used as a indication of deficiency of vitamin A.

General health and specific signs of dietary deficiencies. Many children with signs of dietary deficiency otherwise appear to be in good health; they are not emaciated nor appear stunted and are fairly alert and active. (Bitot said that most of his subjects were in good general health.) But it has been shown for those

classes in which these signs of deficiency are prevalent that the children are considerably smaller at each year of life than the children of the better classes among whom these signs are uncommon, and the mortality-rate is far higher among the former than among the latter (Nicholls 1936).

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A CASE OF ACUTE PRIMARY SUPPURATIVE GASTRITIS

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THE present communication describes a case of acute primary suppurative gastritis discovered at autopsy.

The patient was an African police warder aged about 30 years. For some weeks he had been repeatedly unfit for duty owing to indeterminate illness. On Feb. 7, 1939, he was admitted to the Sewa Hadji Hospital complaining of fever, headache, aching of his body, and constipation. Temp. 103·2° F., pulse 100, resp. 96. Chest appeared normal. Spleen enlarged. He complained of epigastric pain but there was no vomiting. Hæmoglobin 50 per cent.; urine contained a few pus cells. He was given quinine, but his temperature remained high and he died at 9.20 A.M. on Feb. 10.

POST-MORTEM FINDINGS

The examination was made 1½ hours after death. The body was that of a well-nourished man. *Lungs* and pleuræ normal; no adhesions. The *pericardium* contained a moderate amount of bloodstained fluid and clot; intense venous congestion of coronary veins and distension of right auricle; rest of heart normal. The *peritoneum* contained a moderate amount of clear fluid.

The *stomach* was empty. Its wall was thick, œdematous, and whitish, the mucous membrane being thrown up into great thickened folds. The swelling involved the whole stomach, but was most pronounced at the cardiac end of the lesser curvature. Over most of the fundus the wall was about 0·6–1·2 cm. thick, but near the cardiac sphincter, at the site of submucosal hæmorrhage, it was about 2 cm. thick. There were petechial submucosal hæmorrhages along the lesser curvature, and on each side near the cardiac end there was a circular area of submucosal hæmorrhage about 3 cm. across. The rest of the mucous membrane, although much thickened, was not unduly congested; no ulceration could be seen naked-eye. The thickening and œdema did not extend beyond the cardiac and pyloric sphincters. The external surface showed nothing abnormal and the lymph-glands along the lesser curvature were not enlarged.

Other organs.—Œsophagus and pharynx normal; no signs of caustic or corrosive fluids. Duodenum and intestines normal, apart from the presence of a few ancylostomes. Liver had rather a pasty appearance on section; otherwise normal. Spleen swollen, dark red, firm. Kidneys very pale. Brain normal.

HISTOLOGY

The *stomach* was acutely inflamed, the changes being more marked in sections taken from the fundus than in those from the pyloric portion. In the fundus the mucous layer was mostly normal apart from a slight increase in the number of leucocytes in its deeper portion and in the muscularis mucosæ; but in one small area, overlying a similar lesion in the submucous coat, it was completely necrotic.

The submucous coat was the site of intense inflammation. The whole layer was greatly thickened and swollen with œdema. Infiltration with leucocytes (mostly polymorphs) was widespread. Some areas showed complete necrosis and loss of nuclear staining; in others there were deposits of fibrin or hæmorrhages. The inflammation was most intense round the larger blood-vessels and lymphatics. The walls of the vessels were usually involved—where the inflammation was slight there were collections of leucocytes in the intimal coat, where it was more severe all the coats were infiltrated with polymorphs, and in some vessels the whole wall was necrotic. In some cases the lumen was filled by a thrombus, but usually it contained only a thin fibrinous clot or it was empty.

The muscular coat showed changes which seemed to be secondary to those of the submucous layer. The muscle bundles were separated by œdema and by infiltrations of inflammatory cells.

The subserous layer was thickened by œdema and by infiltration of inflammatory cells. Some of the larger lymphatics were distended with mononuclears. In one place there was a small hæmorrhage. One section showed an inflammatory effusion on the peritoneal surface of the stomach.

In sections from the pyloric portion of the stomach the changes were less intense. The mucous layer was normal. The submucous coat showed inflammatory œdema, diffuse infiltrations with leucocytes, and less marked inflammation of the vessels. The muscular and subserous coats showed œdema and diffuse infiltrations by leucocytes.

In sections stained by Gram's method, organisms were most numerous near the area of necrosis in the mucous layer. The principal organisms were long thin gram-negative bacilli tending to grow in chains of various lengths; in size and shape they resembled tubercle bacilli but they were not acid-fast; many showed a beaded appearance, and some contained a central spore; in the deeper parts of the necrotic mucous membrane mentioned above they occurred in thick bundles. These bacilli were scattered diffusely in great numbers throughout most of the necrotic parts of the submucous coat. On the surface of the necrotic mucous membrane there were a few colonies of gram-positive cocci, obviously secondary invaders. Elsewhere there were a very few short thin gram-positive bacilli, and a rare chain of short thick gram-positive bacilli. In the less intensely inflamed parts no bacteria could be seen.

Liver.—There were fairly large collections of mononuclear cells in the portal sheaths. All the Kupffer cells were much distended with granules of brown pigment. The hepatic cells were approximately normal. No organisms were seen.

Spleen.—The malpighian bodies were rather small and the component lymphocytes were not densely packed; the walls of the central arterioles were slightly swollen. The sinuses were almost empty. In the pulp, red blood-corpuscles greatly predominated; there were also numerous granules of brown pigment.

Kidney.—The glomeruli were shrunken and there was slight thickening of Bowman's capsules. Otherwise normal.

A small *lymph-gland* from the lesser curvature showed nothing abnormal; no organisms could be seen in it.

The histological appearances indicate a penetration of the mucous membrane at a few limited areas by the bacillus described, and a subsequent spreading of the inflammation throughout the submucous layer, involving secondarily the muscular and serous coats. As no material for bacteriological culture had been taken during the post-mortem examination, the organism could not be identified further; its appearance was quite unlike that of anthrax. The hypothesis that this gastritis might have been caused by a poison is ruled out by (1) the history; (2) the absence

of lesions in the mouth, pharynx, and œsophagus; and (3) the healthy state of the gastric mucous membrane (except for one tiny area) as compared with the intense and widespread inflammation of the submucous coat.

According to Hurst, writing in Price's Medicine (3rd ed., p. 539), acute suppurative gastritis is a very rare disease "due to invasion by streptococci or less frequently pneumococci, staphylococci or *B. coli*, of the submucous tissue through a carcinomatous ulcer, or still more rarely through a chronic ulcer or the wound left after an operation on the stomach. In exceptional cases the point of invasion cannot be recognised. The condition may also occur in pyæmia, anthrax, and smallpox. Epigastric pain and tenderness are severe. Vomiting is always present. . . . Peritonitis generally supervenes in the course of 2 or 3 days." In the present case, vomiting was absent and the patient died as peritonitis and pericarditis were beginning to develop.

Grateful acknowledgments are due to the director of medical services, Tanganyika Territory, and to Dr. H. J. O'D. Burke-Gaffney, for facilities, assistance and advice.

A CASE OF HERPES OCCIPITO-COLLARIS

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The communication by C. P. G. Wakeley and J. H. Mulvany on geniculate herpes in The Lancet of April 1 (p. 746) prompts me to record the following case which was under my care at that time.

CASE-RECORD

A man, aged 52, had been away from work suffering from troublesome furunculosis for several weeks before he developed herpes. I myself had attended a case of trigeminal herpes shortly before visiting him on March 17 and might have been the vector. No other source has been traced.

On March 23 the patient began to have pain and tenderness in the left side of the scalp with stiffness of the neck. Three days later the typical vesiculate rash of herpes zoster began to appear, first over the middle region of the left sternomastoid. At the same time he developed a cough. The following day he complained that he had a sore throat and that his voice was affected; also that his left cheek seemed tender on pressure with the tongue. On the 28th the left side of his tongue was sore and he complained that the left side of his mouth was dry. By this time the rash was fully developed, the area involved being as shown in fig. 1. There were in addition vesicles in the cleft between the ear and the mastoid and over the mastoid process. On the left edge of the anterior third of the tongue was a row of shallow ulcers, apparently broken down vesicles, and there was another group at the junction of the hard and soft palate on the left side just where the dental plate ended. The mouth had previously been quite clean and healthy.

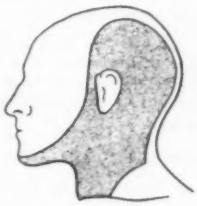

Fig. 1—Distribution of rash. Both surfaces of the auricle and a small area immediately in front of it escaped. The rash reached exactly to the midline from the point of the chin to the manubrial notch, but did not reach the midline posteriorly. There were vesicles in the cleft between the auricle and the mastoid process.

It is to be noted that the usual herpes oticus zone was free. No vesicles were seen in the external meatus and the tympanic membrane was clear. He was not conscious of hypoacousis, and, although watch and tuning-fork were heard at only six inches, there was no significant difference between the two sides. No vesicles were seen in the larynx, there was no discharge from the nose, and no vesicles were seen in the nostril. No facial palsy developed during the subsequent fortnight, but a slight droop of the left side of the face was apparent, dating from dental extraction three years before.

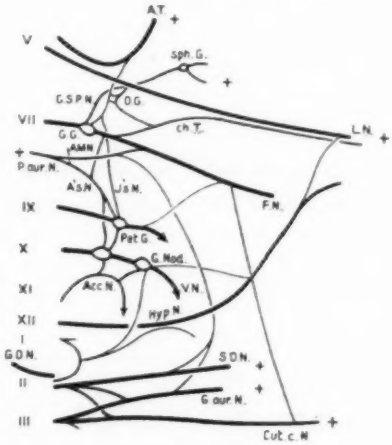

Fig. 2—Relevant nervous connexions:

ACC.N., accessory nerve
A.M.N., auriculo-mastoid br. of vagus
A'S N., Arnold's nerve
A.T., Auriculo-temporal nerve
CH.T., chorda tympani
CUT.C.N., cutaneous cervical nerve
F.N., facial nerve
G.AUR.N., great auricular nerve
G.G., geniculate ganglion
G.O.N., great occipital nerve
G.NOD., ganglion nodosum
G.S.P.N., great superficial petrosal nerve
HYP.N., hypoglossal nerve
J'S N., Jacobsen's nerve
L.N., lingual nerve
O.G., otic ganglion
PET.G., petrosal ganglion
P.AUR.N., posterior auricular nerve
S.O.N., smaller occipital nerve
SPH.G., sphenopalatine ganglion
V.N., vagus nerve

Evidently a very complicated system of nervous connexions is represented by this case. All the cutaneous zones, except the auriculo-temporal, can be explained on the basis of the second and third cervical anterior divisions. The posterior division—the great occipital nerve—did not appear affected, since the midline area of the occiput was not involved. A connexion exists between the second and third cervical nerves and the posterior auricular branch of the facial nerve which joins Arnold's branch of the vagus (fig. 2), and this may account for the vesiculate area behind the ear. On the other hand, in order to explain the presence of vesicles in the auriculo-temporal area, on the palate and tongue, it is necessary to assume disease of the auriculo-temporal nerve, sphenopalatine ganglion and the chorda tympani, the last also accounting for the dryness of the mouth.

All these effects could result from herpes of the otic ganglion and this is connected by Jacobsen's nerve to the petrosal ganglion of the ninth nerve. This in turn is connected to the jugular ganglion of the vagus, whence also arises Arnold's nerve to the area behind the ear. The ganglion nodosum of the vagus lies slightly peripheral to the jugular ganglion and is connected to the loop between the first and second cervical nerves. The cough and voice change may also be a result of disease affecting the vagus.

In this way the whole syndrome is explicable on the basis of herpes of the anterior division of the second cervical nerve or as separate herpetic lesions of that nerve and the otic ganglion.

A similar case in a child of six years, showing left occipito-collaris herpes with lesions on the left side of the tip of the tongue, was described by Gaté and others in 1936.

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PNEUMOCOCCAL MENINGITIS COMPLICATING PNEUMOCOCCAL EMPYEMA

TREATED UNSUCCESSFULLY WITH M. & B. 693

BY J. D. AITCHISON, M.B. Glasg.

RESIDENT ASSISTANT PHYSICIAN, CITY OF GLASGOW FEVER HOSPITAL, BELVIDERE

IN view of the reports of recovery from pneumococcal meningitis treated with M. & B. 693 the following case of meningitis developing during such treatment should perhaps be recorded.

A child, 20 months old, was admitted to Belvidere Hospital on March 7, 1939. She was certified to be suffering from whooping-cough and pneumonia. The whoop was first noticed on Jan. 4. There was a history of three previous attacks of pneumonia.

She was pale and irritable and she had a loose cough, though no whoop. Her stools were green and frequent. Temperature 101° F., pulse-rate 140, respiration-rate 52. Right lung: coarse crepitant râles at the base. Left lung: percussion note impaired over the posterior half of the axilla and at the inferior angle of the scapula. Over this area the respiratory murmur was vesicular but diminished. Tubular breathing was present just above it. The provisional diagnosis was localised collection of fluid.

On March 8 treatment with M. & B. 693 0·25 g. four times a day was begun. Three days later, when the area of dullness had extended slightly, the chest was explored, and 5 c.cm. of green purulent fluid was withdrawn; it contained gram-positive diplococci, which gave the capsule-swelling reaction with type XVI antipneumococcal serum. On March 13 radiography showed pleural thickening over the lower two-thirds of the left lung and a collection of fluid apparently lying between the lobes. On the 15th the left chest was again explored at several points over the dull area, but no fluid found. The temperature fell to normal, and stools were now normal. Four days later the temperature rose again, but the child looked better than she did on admission.

The general condition improved slowly, but the temperature varied from 98° F. to 101° F. On March 23 the percussion note was still impaired over the left posterior axillary region with diminished vesicular breath sounds, and medium crepitant râles; at the upper limit of the dull area the breathing was tubular. The right lung was clear. The left chest was again explored, but no fluid was found. A profuse nasal discharge appeared. M. & B. 693 was discontinued (15 g. having now been given). On March 26 sulphanilamide 0·5 g. thrice daily was started, but next day radiography of the chest showed the fluid rather less in amount, and on the 28th the sulphanilamide was discontinued. The nasal discharge was now scanty and no fluid was obtained by aspiration of the lung. The pyrexia, however, continued, though the lesion in the chest was gradually lessening, and on April 1 M. & B. 693 was again given (0·25 g. four times daily). Next day the temperature fell to normal but it rose to 103° F. on the evening of April 3. The child did not continue to improve, though the chest was clearing and there was no longer any tubular breathing. On April 8 she was worse. The stools were green, loose, and frequent; culture showed no non-lactose-fermenting organisms. Half-strength saline and a 5 per cent. solution of glucose were given orally ad lib. By the 11th, however, she had become very lethargic (temperature 103° F.), and on the following day there was a transient strabismus though no rigidity of neck or legs. Deterioration was thenceforward rapid, and, although there was no evidence of meningeal infection except the strabismus, which had not recurred, lumbar puncture was done, and 30 c.cm. of turbid fluid under pressure was withdrawn. Abundant gram-positive diplococci and polymorphs were present. The organisms showed swelling of the capsules with type XVI antipneumococcal serum. The child had convulsions on April 14, and died on the 15th. Altogether 29 g. M. & B. 693 had been given. Post-mortem examination was refused.

The meningitis was apparently a direct sequel to the pleural infection, for type XVI pneumococci were recovered from both sites. In view of the localisation of the empyema and the fact that pus was aspirated only once, and in small quantity, no attempt was made at open drainage. This was justified in so far that, until the onset of enteritis and meningitis, improvement did take place.

Maclean, Rogers, and Fleming[1] have found that pneumococci tested in vitro "vary enormously in their sensitivity to the drug, and this variation is not associated with the type of pneumococcus, but with the individual strain." They have also found that pneumococci can, in an infected animal treated with M. & B. 693, readily establish a tolerance or fastness to the drug. Although it is impossible to be dogmatic as to which of those explanations applies to this case, the gradual improvement in the chest infection suggests that the pneumococci acquired a fastness to the drug. On the other hand, the history of three previous attacks of "pneumonia," in conjunction with the spread to the meninges from a relatively subacute empyema, implies abnormal susceptibility to pneumococcal infection.

Although the concentration of M. & B. 693 in the blood or in the cerebrospinal fluid was not estimated, the dosage used (0·25 g. four times a day) has been found adequate in a large number of cases of pneumonia in young children in Belvidere Hospital. The drug was administered for a much longer period than is usual, but no toxic effects were noted.

I am indebted to Dr. T. Archibald, medical superintendent of the hospital, for permission to publish this case, and to Dr. A. W. McCrorie, assistant superintendent of the hospital, for his helpful advice.

PNEUMOCOCCAL MENINGITIS

DEVELOPING DURING TREATMENT WITH M. & B. 693

BY J. H. DOWDS, M.B., M.Sc.

(*From the European Hospital, Roan Antelope Mine, Northern Rhodesia*)

AN adult male native was first seen on the second day of his illness, when he was found to have a small area of dullness at the right lung base, with bronchial breathing and a few associated fine crepitations, slight dyspnœa, a temperature of 104° F., and a full soft pulse with a rate of 120. M. & B. 693 1 g. four times daily was given after an initial dose of 2 g. on admission. Temperature and pulse reached normal

1. Maclean, I. H., Rogers, K. B., and Fleming, A., *Lancet*, March 11, 1939, p. 562.

on the third day of illness (after 9 g. of the drug had been given) and remained so until the fifth day, when the temperature rose suddenly to 103° F., and shortly afterwards fine crepitations with commencing bronchial breathing were noted at the other lung base, and the conjunctivæ were now slightly icteric. Temperature and pulse reached normal again in thirty-six hours, and after two days of normal temperature the administration of M. & B. 693 was discontinued. After one more day of apyrexia the temperature suddenly rose again to 101° F. with no further development in the lung condition. The following day the patient became restless and mentally confused, and next day a little stiffness of the neck muscles appeared without any of the other usual signs of meningitis. He died the same day.

Post-mortem examination revealed frank pus (containing pneumococci) over the vertex of both cerebral hemispheres. The meningeal involvement apparently began immediately after the cessation of administration of M. & B. 693.

This case shows the persistence of the pneumococcus in a virulent form after three days' apyrexia, in spite of a fairly long course of M. & B. 693 (24 g. in all), and suggests the inadvisability of discontinuing the drug soon after symptoms and temperature have returned to normal.

PNEUMOCOCCAL MENINGITIS TREATED WITH SULPHANILYLPYRIDINE

By Hugh Dunlop, M.D., M.Sc. Lond., F.R.C.P.

PHYSICIAN TO THE ROYAL WATERLOO HOSPITAL, AND ASSISTANT PHYSICIAN TO CHARING CROSS HOSPITAL, LONDON; AND

John Laurie, M.R.C.S.

HOUSE-PHYSICIAN TO THE ROYAL WATERLOO HOSPITAL

A boy of 9 was admitted to hospital on Feb. 19, 1939. For six days he had complained of pain over the right eye. The temperature had been 102° F. and there had been severe headache but no vomiting.

There was œdema of the right supra-orbital region and upper eyelid, and extreme tenderness above the right eye. The posterior neck muscles were rigid; Kernig's and Brudzinski's leg signs were elicited; the deep reflexes were present and equal but the left plantar reflex was extensor. Temperature 103·8° F., pulse-rate 98, respirations 25. Photophobia, irritability and other meningeal symptoms were present.

Lumbar puncture gave a turbid cerebrospinal fluid (C.S.F.) under increased pressure, and on culture this gave a mixed growth of pneumococci and *Bacillus xerosis*. Treatment with sulphanilylpyridine was started at once. On the evening of admission Mr. Charles Beevor drained the frontal sinus by external operation. The sinus which communicated with that of the left side was full of pus; it was packed with B.I.P.P. and a tube was inserted. Next day the temperature fell to 98·4° F. Sulphanilylpyridine was given daily by mouth, and culture of C.S.F. removed on Feb. 23 yielded no organisms. On Feb. 27 the drug was discontinued, a total of 24·5 g. having been given. Thirty-six hours later, however, on March 1, the temperature rose to 101·4° F., and a specimen of C.S.F. then taken contained type IV pneumococci in considerable numbers, the white-cell count being about 300 (all polymorphs). Administration of the drug was resumed and continued till March 10. Though there were still a few pneumococci in the C.S.F. on March 6 the temperature became normal on the 3rd, and after a brief rise to 99·6° F. remained normal until the patient left hospital on April 5. The general condition was good from about the third day after admission, apart from the recrudescence of March 1.

Anæmia developed about a week after admission and the red-cell count on March 10 was only 3,000,000, the cells being pale and irregular, while the hæmoglobin was 47 per cent. A transfusion of 350 c.cm. of blood was accordingly given on March 13, and by the 30th the hæmoglobin had reached 67 per cent. The white cells fell from 13,500 per c.mm. on Feb. 20 to 6000 on March 1 (polymorphs 58 per cent.); but they had risen again to 9000, with a normal differential count, on March 10.

The total amount of the drug administered in the twenty days was 40·5 g.

We wish to thank Mr. Charles Beevor for permission to publish the case and Dr. F. A. Knott for the numerous pathological investigations he performed.

MEDICAL SOCIETIES

ROYAL SOCIETY OF MEDICINE

SECTION OF PSYCHIATRY

At a meeting of this section held on June 13, with Dr. Hugh Crichton-Miller, the president, in the chair, a symposium on

The Chronic Uncertified

was opened by Dr. G. de M. Rudolf. In a large group of successive cases taken from various sources the commonest diagnoses had, he said, been anxiety, confusion, depression and schizophrenia. The high proportion of anxiety cases—between 30 and 45 per cent.—had been striking, and the sex-incidence had been remarkably evenly distributed, with a slight preponderance of females not accounted for by the numerical superiority of the female population. He had found Benzedrine (amphetamine) useful in the treatment of patients who were depressed in the early part of the day. Occupational therapy had brought about great improvement in a number of cases of schizophrenia without the use of shock treatment. In a group of 600 mental defectives outside mental hospitals, only 1·6 per cent. had shown signs of psychoses. In the treatment of post-encephalitic symptoms great improvement had been obtained with ordinary B.P. belladonna root prepared by the Bulgarian method. Large numbers of higher-grade mental defectives were apparently missed until they broke out into violence or delinquency in reaction to some impossible demand. Kent's test was a most useful emergency test: its performance took only about a quarter of an hour and, although not quite so accurate as the Binet-Simon test, the English modification was reasonably accurate to within two years. Tests of accomplishment were valuable, and tests of temperament and character would be the most valuable of all if they could be devised.

Dr. Noel Harris saw the problem of the chronic uncertified as one which regularly confronted psychiatrists in private practice and in hospitals alike. It was the problem of how to deal with the individual who behaved in an irresponsible and foolish manner, to the detriment of his own career and of the lives of his friends and relatives, and yet did not show the specific psychotic reactions which would justify his certification. Such patients could be classified in order of frequency as psychopathic

personalities, hysterics, alcoholic addicts, schizophrenics, drug addicts, paranoiacs, high-grade mental defectives, obsessionals, depressives and post-encephalitics. A difficult question arose when a patient who was not obviously of unsound mind used the threat of suicide or injury to someone else as a weapon against those around him. The question whether a physician was justified in certifying a person on the ground of danger of suicide was an important one. It would be easier to answer if the legal authorities and the public would realise that the physician was almost under a duty to take a risk at times in the interests of the patient. Suicide was by no means always an indication of incorrect diagnosis, carelessness, or lack of forethought. The general practitioner and the specialist were constantly asking the psychiatrist to admit without certification cases of primary depression, all of whom were potential suicides. Was the psychiatrist, he asked, to safeguard himself by refusing to admit such cases and thereby almost forcing their certification, when he knew that, by taking a certain risk and perhaps prejudicing his reputation and that of the hospital, he could help a large number of those depressives towards recovery? Those who had to make this decision would feel happier if they knew that the public and those who administered the law realised their difficulty and responsibility, and the possibility of suicide being committed in spite of the greatest care.

What should be done with the thoroughly irresponsible person? Should the psychiatrist encourage the police to prosecute or should he do nothing? A great difficulty was the tendency, when these patients were certified, for the mental hospital to discharge them after a few days as not insane. Paranoiacs should be kept out of a mental hospital if possible; with careful handling they could be prevented for long periods from giving trouble. He pleaded for new legislation, but pointed to two methods by which existing provisions could be utilised. Some hysterics and addicts could justifiably be certified and detained in a mental hospital as a psychological and disciplinary measure, but the coöperation of the superintendent and of the relatives was necessary to ensure that they should not be discharged merely because soon after admission they showed no signs of insanity. No member of the Board of Control would interfere if the certification were above-board and in the interests of the patient and his relatives. Greater use could be made of the form for the appointment of a receiver. It was chiefly employed in cases of senile decay or of organic disorder, but most psychiatrists were afraid to use it in cases of mild mental disturbance. The difficulty arose through the wording:—

"Every person not so detained and not found a lunatic by inquisition with regard to whom it is proved to the satisfaction of the judge in lunacy that such person is, through mental infirmity arising from disease or age, incapable of managing his own affairs."

A decision that these words covered the case of a patient who was wasting his estate would greatly help the psychiatrist. New legislation should set up a board of legal and mental specialists to deal with problems of certification brought before them by medical men. Many of these doubtful patients could be most usefully accommodated in colonies similar to those in which phthisical patients were enabled to lead happy and useful lives.

Dr. W. CLIFFORD SCOTT pointed out that many uncertified patients suffered quite as much, and caused their relatives quite as much suffering, as they would if they were certified. He found the period of a year a useful point at which to draw the line between chronic and acute cases: it was supported medically by experience and culturally by the ritual of mourning. The chronic uncertified class were exceedingly numerous, and in many clinics the mild forms of cyclothymia and schizophrenia tended to be missed. The older view that the line between psychosis and neurosis was certification was being broken down. The problem, which showed its magnitude in the courts, the outpatient departments of general hospitals and the agencies dealing with chronic unemployment, was analogous to those of illiteracy and infectious illness a century ago. The community had grown out of its attitude of resigned hopelessness to those evils, and would doubtless grow out of a similar attitude to mild mental disorder. Society had developed a belief in educability and had ceased to regard nature as all-powerful. It would come to regard sanity as by no means wholly dependent on nature but to a large extent on nurture. The personnel necessary for the treatment of the chronic uncertified would be numerous and would have to be trained in modern psychiatry and psycho-analytic methods, but the cost of proper provision would be small compared with that of one battleship.

There was need for district organisation of psychiatric services, and for means of coöperation between inpatient and outpatient facilities. Much time would be saved in a special hospital dealing with large numbers of severely ill mental outpatients, and much recourse to inpatient treatment would be avoided, if the psychiatrist could visit the patient at home and consult the family physician. Dr. Scott pleaded for the development of psychiatric services for the chronic uncertified based upon a district organisation similar to that of the educational and public-health services, staffed by personnel who were given the prospect of a lifelong career and adequate psychobiological and psycho-analytical training, with facilities for coöperation between the home and family doctor, the outpatient clinic and the psychiatric institution on the one hand, and the outpatient clinic, the general medical service, the court, the school and the employment agency on the other.

The PRESIDENT, opening the discussion, said that the heart of the problem was the patient who might be certified and who might be discharged forthwith. He maintained emphatically that the physician must take a risk with patients who might commit suicide. By doing so he had saved many persons from possibly permanent certification. The physician must take a broad outlook and weigh against the possibility of suicide the possibility that the patient's life would be quite as truly wasted if he were certified. It was useless to wait on the law. Doctors must interpret the wording of legal provisions for themselves with some degree of independence. They must not expect the master or the judge to say what the law meant by disease and whether the doctor should or should not sign the certificate. It was for the doctor to say what the disease was, and a great deal of mental and functional disorder was to be regarded as disease even if the judge did not agree. The "recurrent uncertified"—the cyclothymic who was not certifiable today but would be certifiable tomorrow and would alternate at regular intervals—constituted an even more difficult problem.

Dr. MURDO MACKENZIE said that the cause of the increase in number of the patient who ought to be certified, who was a nuisance to himself and others, was the advance which had changed the voluntary

boarder to the voluntary patient and had opened the rate-aided hospital to him. The chronic uncertified had one common feature between them: they objected to being mixed up with ordinary mental patients, and the multiplication of special hospitals and clinics primarily interested in mild mental disorder, which they could frequent without restriction, had encouraged them. There had been for years in the medical profession a reluctance to certify; psychiatrists had become aware that they might, many years after signing a certificate, have to suffer prolonged strain before proceedings and acute strain under cross-examination, and most undesirable publicity. Many patients were thus deprived of the benefits of institutional care. Attempts to get lawyers to make doctors feel safe were useless.

Dr. MILDRED CREAK mentioned the large class of chronic neurotics who suffered from physical symptoms and who resented the suggestion that these had a psychological origin. She inquired into the possibility of treating such patients by a fairly drastic physical regeneration, and asked whether analytical material extracted by the use of narcotics from a patient who would not have produced it in free association had any therapeutic value.

Dr. LETITIA FAIRFIELD reminded the section that nothing in the law compelled a person to be sane: any citizen could be as insane as he liked so long as he did not harm himself or others. A difficulty of this tolerance sometimes arose after the patient's death, when a mild chronic psychotic left a will which caused a great deal of injustice and harm. It was then too late for the doctors to reap their just reward, and the lawyers came into their own. This possibility should determine more often the question whether a patient should be certified, especially in his old age. Speedy discharge of a patient who appeared to improve on admission to a mental hospital might be due to pure ignorance in the superintendent or, still more, in the magistrate. Certain hysteropsychotics were amazingly clever at adapting their conduct to their situation and becoming "hypernormal" just when they were required to perform for the purpose of a certificate. The good sense of the judges and the increasing education of the public would prevent substantial injustice being done if the physician in charge of the patient faced up to his duty and described psychosis when and where he met it, even though it did not conform to any legal definition.

Dr. JOHN BRANDER pointed to the great therapeutic value of certification and the incentive to recovery which it suddenly gave to neurotics who had enjoyed life as voluntary patients for months and years. More suicidal patients should be certified: the prospect of recovery was considerably greater in a live melancholic than in a dead neurasthenic. An unsuccessful attempt at suicide, moreover, might leave a permanent trauma.

SECTION OF OTOLOGY

Ear Disease in the Child

AT a meeting of this section held on June 17 at Sheffield, Dr. A. G. WELLS opened the discussion with a paper on the

TREATMENT OF DEFECTS IN HEARING AND OF SUPPURATIVE DISEASES OF THE MIDDLE EAR

based on experience gained in the service of the London County Council. The measurement of hearing with the gramophone audiometer, he said, had become a routine, nearly 300,000 children having been tested. Diastolisation had been employed on an extensive scale for treatment of hypertrophic rhinitis, mouth-breathing, eustachian catarrh, and catarrhal deafness. It was also helpful in sinusitis, otorrhœa, and other conditions. Of 1050 school-children who did not pass a gramophone audiometer test and were found to be suitable for diastolisation, 85 per cent. improved after treatment, 64 per cent. enough to enable them to pass the hearing-test. Other children were found to need inflation, local treatment for otorrhœa, or removal of tonsils and adenoids besides diastolisation. Each child had usually twelve to twenty-four treatments, two each week. Chlorine ionisation had been used for some cases with fibrosis from tubotympanic inflammation. The results were encouraging, but it was too early to give figures based on large numbers or to know whether improvements were maintained. In catarrh of the ear, nose, and throat more raw fruit and vegetables should be eaten and carbohydrates should be cut down.

Suppurative disease of the ear was mostly chronic in London school-children and was likely to remain so until adequate arrangements were made for the efficient treatment of the child of pre-school age. Zinc ionisation had been used in his work for this condition since 1918 with greater success than with any other form of treatment. It should be used in uncomplicated tympanic sepsis, in which it would give successful results in 90 per cent. of cases. This achievement was probably due to the provision of antisepsis without irritation. Many cases of complicated tympanic sepsis could be made suitable for ionisation treatment—e.g., by removing granulations.

Acute inflammation of the middle ear had been managed by keeping the child in bed in a semi-recumbent position, with a flannel garment covering the head and face and hanging loosely over the shoulders and chest. Slits could be cut for the eyes. This wrapping was kept on for forty-eight hours, only being raised for meals. The hearing was tested two-hourly to find out what was happening in the tympanum. Drops were sometimes instilled into the ear but were not considered so important as the continuous heat produced by the head-covering, which produced hyperæmia. Irradiation with a Kromayer water-cooled lamp, both before and after perforation of the tympanic membrane, had been given in 9 cases, with rapid resolution of the condition. This lamp had also been used postoperatively in many cases of radical mastoids in which the healing process seemed to be slowing up.

The Proetz displacement method had been used for children with sinus disease, but Dr. Wells was not convinced of its value and would welcome views from other members of the section.

Dr. PHYLLIS KERRIDGE said that there was no need to emphasise the prevalence of chronic middle-ear disease in children to an audience of otologists. She proposed to tell them briefly the results of an investigation designed to ascertain why cases of this disease were encountered so much more commonly in hospital than in private practice. Scarlet fever and measles were responsible for some of the cases; about 12 per cent. of the patients in fever hospitals with these diseases developed aural complications. Since the infection of the ear was usually due to streptococci, statistics of sulphanilamide therapy in these conditions were hopefully awaited. Most cases of middle-ear disease in children, however, were chronic, either suppurative or catarrhal.

She had tested the hearing of over 5000 school-children from various social classes in different parts

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The general condition improved slowly, but the temperature varied from 98° F. to 101° F. On March 23 the percussion note was still impaired over the left posterior axillary region with diminished vesicular breath sounds, and medium crepitant râles; at the upper limit of the dull area the breathing was tubular. The right lung was clear. The left chest was again explored, but no fluid was found. A profuse nasal discharge appeared. M. & B. 693 was discontinued (15 g. having now been given). On March 26 sulphanilamide 0·5 g. thrice daily was started, but next day radiography of the chest showed the fluid rather less in amount, and on the 28th the sulphanilamide was discontinued. The nasal discharge was now scanty and no fluid was obtained by aspiration of the lung. The pyrexia, however, continued, though the lesion in the chest was gradually lessening, and on April 1 M. & B. 693 was again given (0·25 g. four times daily). Next day the temperature fell to normal but it rose to 103° F. on the evening of April 3. The child did not continue to improve, though the chest was clearing and there was no longer any tubular breathing. On April 8 she was worse. The stools were green, loose, and frequent; culture showed no non-lactose-fermenting organisms. Half-strength saline and a 5 per cent. solution of glucose were given orally ad lib. By the 11th, however, she had become very lethargic (temperature 103° F.), and on the following day there was a transient strabismus though no rigidity of neck or legs. Deterioration was thenceforward rapid, and, although there was no evidence of meningeal infection except the strabismus, which had not recurred, lumbar puncture was done, and 30 c.cm. of turbid fluid under pressure was withdrawn. Abundant gram-positive diplococci and polymorphs were present. The organisms showed swelling of the capsules with type XVI antipneumococcal serum. The child had convulsions on April 14, and died on the 15th. Altogether 29 g. M. & B. 693 had been given. Post-mortem examination was refused.

The meningitis was apparently a direct sequel to the pleural infection, for type XVI pneumococci were recovered from both sites. In view of the localisation of the empyema and the fact that pus was aspirated only once, and in small quantity, no attempt was made at open drainage. This was justified in so far that, until the onset of enteritis and meningitis, improvement did take place.

Maclean, Rogers, and Fleming[1] have found that pneumococci tested in vitro "vary enormously in their sensitivity to the drug, and this variation is not associated with the type of pneumococcus, but with the individual strain." They have also found that pneumococci can, in an infected animal treated with M. & B. 693, readily establish a tolerance or fastness to the drug. Although it is impossible to be dogmatic as to which of those explanations applies to this case, the gradual improvement in the chest infection suggests that the pneumococci acquired a fastness to the drug. On the other hand, the history of three previous attacks of "pneumonia," in conjunction with the spread to the meninges from a relatively subacute empyema, implies abnormal susceptibility to pneumococcal infection.

Although the concentration of M. & B. 693 in the blood or in the cerebrospinal fluid was not estimated, the dosage used (0·25 g. four times a day) has been found adequate in a large number of cases of pneumonia in young children in Belvidere Hospital. The drug was administered for a much longer period than is usual, but no toxic effects were noted.

I am indebted to Dr. T. Archibald, medical superintendent of the hospital, for permission to publish this case, and to Dr. A. W. McCrorie, assistant superintendent of the hospital, for his helpful advice.

PNEUMOCOCCAL MENINGITIS
DEVELOPING DURING TREATMENT WITH M. & B. 693

By J. H. Dowds, M.B., M.Sc.
(*From the European Hospital, Roan Antelope Mine, Northern Rhodesia*)

An adult male native was first seen on the second day of his illness, when he was found to have a small area of dullness at the right lung base, with bronchial breathing and a few associated fine crepitations, slight dyspnœa, a temperature of 104° F., and a full soft pulse with a rate of 120. M. & B. 693 1 g. four times daily was given after an initial dose of 2 g. on admission. Temperature and pulse reached normal

1. Maclean, I. H., Rogers, K. B., and Fleming, A., *Lancet*, March 11, 1939, p. 562.

on the third day of illness (after 9 g. of the drug had been given) and remained so until the fifth day, when the temperature rose suddenly to 103° F., and shortly afterwards fine crepitations with commencing bronchial breathing were noted at the other lung base, and the conjunctivæ were now slightly icteric. Temperature and pulse reached normal again in thirty-six hours, and after two days of normal temperature the administration of M. & B. 693 was discontinued. After one more day of apyrexia the temperature suddenly rose again to 101° F. with no further development in the lung condition. The following day the patient became restless and mentally confused, and next day a little stiffness of the neck muscles appeared without any of the other usual signs of meningitis. He died the same day.

Post-mortem examination revealed frank pus (containing pneumococci) over the vertex of both cerebral hemispheres. The meningeal involvement apparently began immediately after the cessation of administration of M. & B. 693.

This case shows the persistence of the pneumococcus in a virulent form after three days' apyrexia, in spite of a fairly long course of M. & B. 693 (24 g. in all), and suggests the inadvisability of discontinuing the drug soon after symptoms and temperature have returned to normal.

PNEUMOCOCCAL MENINGITIS TREATED WITH SULPHANILYLPYRIDINE

By Hugh Dunlop, M.D., M.Sc. Lond., F.R.C.P.

PHYSICIAN TO THE ROYAL WATERLOO HOSPITAL, AND ASSISTANT PHYSICIAN TO CHARING CROSS HOSPITAL, LONDON; AND

John Laurie, M.R.C.S.

HOUSE-PHYSICIAN TO THE ROYAL WATERLOO HOSPITAL

A boy of 9 was admitted to hospital on Feb. 19, 1939. For six days he had complained of pain over the right eye. The temperature had been 102° F. and there had been severe headache but no vomiting.

There was œdema of the right supra-orbital region and upper eyelid, and extreme tenderness above the right eye. The posterior neck muscles were rigid; Kernig's and Brudzinski's leg signs were elicited; the deep reflexes were present and equal but the left plantar reflex was extensor. Temperature 103·8° F., pulse-rate 98, respirations 25. Photophobia, irritability and other meningeal symptoms were present.

Lumbar puncture gave a turbid cerebrospinal fluid (C.S.F.) under increased pressure, and on culture this gave a mixed growth of pneumococci and *Bacillus xerosis*. Treatment with sulphanilylpyridine was started at once. On the evening of admission Mr. Charles Beevor drained the frontal sinus by external operation. The sinus which communicated with that of the left side was full of pus; it was packed with B.I.P.P. and a tube was inserted. Next day the temperature fell to 98·4° F. Sulphanilylpyridine was given daily by mouth, and culture of C.S.F. removed on Feb. 23 yielded no organisms. On Feb. 27 the drug was discontinued, a total of 24·5 g. having been given. Thirty-six hours later, however, on March 1, the temperature rose to 101·4° F., and a specimen of C.S.F. then taken contained type IV pneumococci in considerable numbers, the white-cell count being about 300 (all polymorphs). Administration of the drug was resumed and continued till March 10. Though there were still a few pneumococci in the C.S.F. on March 6 the temperature became normal on the 3rd, and after a brief rise to 99·6° F. remained normal until the patient left hospital on April 5. The general condition was good from about the third day after admission, apart from the recrudescence of March 1.

Anæmia developed about a week after admission and the red-cell count on March 10 was only 3,000,000, the cells being pale and irregular, while the hæmoglobin was 47 per cent. A transfusion of 350 c.cm. of blood was accordingly given on March 13, and by the 30th the hæmoglobin had reached 67 per cent. The white cells fell from 13,500 per c.mm. on Feb. 20 to 6000 on March 1 (polymorphs 58 per cent.); but they had risen again to 9000, with a normal differential count, on March 10.

The total amount of the drug administered in the twenty days was 40·5 g.

We wish to thank Mr. Charles Beevor for permission to publish the case and Dr. F. A. Knott for the numerous pathological investigations he performed.

MEDICAL SOCIETIES

ROYAL SOCIETY OF MEDICINE

SECTION OF PSYCHIATRY

At a meeting of this section held on June 13, with Dr. Hugh Crichton-Miller, the president, in the chair, a symposium on

The Chronic Uncertified

was opened by Dr. G. de M. Rudolf. In a large group of successive cases taken from various sources the commonest diagnoses had, he said, been anxiety, confusion, depression and schizophrenia. The high proportion of anxiety cases—between 30 and 45 per cent.—had been striking, and the sex-incidence had been remarkably evenly distributed, with a slight preponderance of females not accounted for by the numerical superiority of the female population. He had found Benzedrine (amphetamine) useful in the treatment of patients who were depressed in the early part of the day. Occupational therapy had brought about great improvement in a number of cases of schizophrenia without the use of shock treatment. In a group of 600 mental defectives outside mental hospitals, only 1·6 per cent. had shown signs of psychoses. In the treatment of post-encephalitic symptoms great improvement had been obtained with ordinary B.P. belladonna root prepared by the Bulgarian method. Large numbers of higher-grade mental defectives were apparently missed until they broke out into violence or delinquency in reaction to some impossible demand. Kent's test was a most useful emergency test: its performance took only about a quarter of an hour and, although not quite so accurate as the Binet-Simon test, the English modification was reasonably accurate to within two years. Tests of accomplishment were valuable, and tests of temperament and character would be the most valuable of all if they could be devised.

Dr. Noel Harris saw the problem of the chronic uncertified as one which regularly confronted psychiatrists in private practice and in hospitals alike. It was the problem of how to deal with the individual who behaved in an irresponsible and foolish manner, to the detriment of his own career and of the lives of his friends and relatives, and yet did not show the specific psychotic reactions which would justify his certification. Such patients could be classified in order of frequency as psychopathic

personalities, hysterics, alcoholic addicts, schizophrenics, drug addicts, paranoiacs, high-grade mental defectives, obsessionals, depressives and post-encephalitics. A difficult question arose when a patient who was not obviously of unsound mind used the threat of suicide or injury to someone else as a weapon against those around him. The question whether a physician was justified in certifying a person on the ground of danger of suicide was an important one. It would be easier to answer if the legal authorities and the public would realise that the physician was almost under a duty to take a risk at times in the interests of the patient. Suicide was by no means always an indication of incorrect diagnosis, carelessness, or lack of forethought. The general practitioner and the specialist were constantly asking the psychiatrist to admit without certification cases of primary depression, all of whom were potential suicides. Was the psychiatrist, he asked, to safeguard himself by refusing to admit such cases and thereby almost forcing their certification, when he knew that, by taking a certain risk and perhaps prejudicing his reputation and that of the hospital, he could help a large number of those depressives towards recovery? Those who had to make this decision would feel happier if they knew that the public and those who administered the law realised their difficulty and responsibility, and the possibility of suicide being committed in spite of the greatest care.

What should be done with the thoroughly irresponsible person? Should the psychiatrist encourage the police to prosecute or should he do nothing? A great difficulty was the tendency, when these patients were certified, for the mental hospital to discharge them after a few days as not insane. Paranoiacs should be kept out of a mental hospital if possible; with careful handling they could be prevented for long periods from giving trouble. He pleaded for new legislation, but pointed to two methods by which existing provisions could be utilised. Some hysterics and addicts could justifiably be certified and detained in a mental hospital as a psychological and disciplinary measure, but the coöperation of the superintendent and of the relatives was necessary to ensure that they should not be discharged merely because soon after admission they showed no signs of insanity. No member of the Board of Control would interfere if the certification were above-board and in the interests of the patient and his relatives. Greater use could be made of the form for the appointment of a receiver. It was chiefly employed in cases of senile decay or of organic disorder, but most psychiatrists were afraid to use it in cases of mild mental disturbance. The difficulty arose through the wording:—

"Every person not so detained and not found a lunatic by inquisition with regard to whom it is proved to the satisfaction of the judge in lunacy that such person is, through mental infirmity arising from disease or age, incapable of managing his own affairs."

A decision that these words covered the case of a patient who was wasting his estate would greatly help the psychiatrist. New legislation should set up a board of legal and mental specialists to deal with problems of certification brought before them by medical men. Many of these doubtful patients could be most usefully accommodated in colonies similar to those in which phthisical patients were enabled to lead happy and useful lives.

Dr. W. CLIFFORD SCOTT pointed out that many uncertified patients suffered quite as much, and caused their relatives quite as much suffering, as they would if they were certified. He found the period of a year a useful point at which to draw the line between chronic and acute cases: it was supported medically by experience and culturally by the ritual of mourning. The chronic uncertified class were exceedingly numerous, and in many clinics the mild forms of cyclothymia and schizophrenia tended to be missed. The older view that the line between psychosis and neurosis was certification was being broken down. The problem, which showed its magnitude in the courts, the outpatient departments of general hospitals and the agencies dealing with chronic unemployment, was analogous to those of illiteracy and infectious illness a century ago. The community had grown out of its attitude of resigned hopelessness to those evils, and would doubtless grow out of a similar attitude to mild mental disorder. Society had developed a belief in educability and had ceased to regard nature as all-powerful. It would come to regard sanity as by no means wholly dependent on nature but to a large extent on nurture. The personnel necessary for the treatment of the chronic uncertified would be numerous and would have to be trained in modern psychiatry and psycho-analytic methods, but the cost of proper provision would be small compared with that of one battleship.

There was need for district organisation of psychiatric services, and for means of coöperation between inpatient and outpatient facilities. Much time would be saved in a special hospital dealing with large numbers of severely ill mental outpatients, and much recourse to inpatient treatment would be avoided, if the psychiatrist could visit the patient at home and consult the family physician. Dr. Scott pleaded for the development of psychiatric services for the chronic uncertified based upon a district organisation similar to that of the educational and public-health services, staffed by personnel who were given the prospect of a lifelong career and adequate psychobiological and psycho-analytical training, with facilities for coöperation between the home and family doctor, the outpatient clinic and the psychiatric institution on the one hand, and the outpatient clinic, the general medical service, the court, the school and the employment agency on the other.

The PRESIDENT, opening the discussion, said that the heart of the problem was the patient who might be certified and who might be discharged forthwith. He maintained emphatically that the physician must take a risk with patients who might commit suicide. By doing so he had saved many persons from possibly permanent certification. The physician must take a broad outlook and weigh against the possibility of suicide the possibility that the patient's life would be quite as truly wasted if he were certified. It was useless to wait on the law. Doctors must interpret the wording of legal provisions for themselves with some degree of independence. They must not expect the master or the judge to say what the law meant by disease and whether the doctor should or should not sign the certificate. It was for the doctor to say what the disease was, and a great deal of mental and functional disorder was to be regarded as disease even if the judge did not agree. The "recurrent uncertified"—the cyclothymic who was not certifiable today but would be certifiable tomorrow and would alternate at regular intervals—constituted an even more difficult problem.

Dr. MURDO MACKENZIE said that the cause of the increase in number of the patient who ought to be certified, who was a nuisance to himself and others, was the advance which had changed the voluntary

boarder to the voluntary patient and had opened the rate-aided hospital to him. The chronic uncertified had one common feature between them: they objected to being mixed up with ordinary mental patients, and the multiplication of special hospitals and clinics primarily interested in mild mental disorder, which they could frequent without restriction, had encouraged them. There had been for years in the medical profession a reluctance to certify; psychiatrists had become aware that they might, many years after signing a certificate, have to suffer prolonged strain before proceedings and acute strain under cross-examination, and most undesirable publicity. Many patients were thus deprived of the benefits of institutional care. Attempts to get lawyers to make doctors feel safe were useless.

Dr. MILDRED CREAK mentioned the large class of chronic neurotics who suffered from physical symptoms and who resented the suggestion that these had a psychological origin. She inquired into the possibility of treating such patients by a fairly drastic physical regeneration, and asked whether analytical material extracted by the use of narcotics from a patient who would not have produced it in free association had any therapeutic value.

Dr. LETITIA FAIRFIELD reminded the section that nothing in the law compelled a person to be sane: any citizen could be as insane as he liked so long as he did not harm himself or others. A difficulty of this tolerance sometimes arose after the patient's death, when a mild chronic psychotic left a will which caused a great deal of injustice and harm. It was then too late for the doctors to reap their just reward, and the lawyers came into their own. This possibility should determine more often the question whether a patient should be certified, especially in his old age. Speedy discharge of a patient who appeared to improve on admission to a mental hospital might be due to pure ignorance in the superintendent or, still more, in the magistrate. Certain hysteropsychotics were amazingly clever at adapting their conduct to their situation and becoming "hypernormal" just when they were required to perform for the purpose of a certificate. The good sense of the judges and the increasing education of the public would prevent substantial injustice being done if the physician in charge of the patient faced up to his duty and described psychosis when and where he met it, even though it did not conform to any legal definition.

Dr. JOHN BRANDER pointed to the great therapeutic value of certification and the incentive to recovery which it suddenly gave to neurotics who had enjoyed life as voluntary patients for months and years. More suicidal patients should be certified: the prospect of recovery was considerably greater in a live melancholic than in a dead neurasthenic. An unsuccessful attempt at suicide, moreover, might leave a permanent trauma.

SECTION OF OTOLOGY

Ear Disease in the Child

AT a meeting of this section held on June 17 at Sheffield, Dr. A. G. WELLS opened the discussion with a paper on the

TREATMENT OF DEFECTS IN HEARING AND OF SUPPURATIVE DISEASES OF THE MIDDLE EAR

based on experience gained in the service of the London County Council. The measurement of hearing with the gramophone audiometer, he said, had become a routine, nearly 300,000 children having been tested. Diastolisation had been employed on an extensive scale for treatment of hypertrophic rhinitis, mouth-breathing, eustachian catarrh, and catarrhal deafness. It was also helpful in sinusitis, otorrhœa, and other conditions. Of 1050 school-children who did not pass a gramophone audiometer test and were found to be suitable for diastolisation, 85 per cent. improved after treatment, 64 per cent. enough to enable them to pass the hearing-test. Other children were found to need inflation, local treatment for otorrhœa, or removal of tonsils and adenoids besides diastolisation. Each child had usually twelve to twenty-four treatments, two each week. Chlorine ionisation had been used for some cases with fibrosis from tubotympanic inflammation. The results were encouraging, but it was too early to give figures based on large numbers or to know whether improvements were maintained. In catarrh of the ear, nose, and throat more raw fruit and vegetables should be eaten and carbohydrates should be cut down.

Suppurative disease of the ear was mostly chronic in London school-children and was likely to remain so until adequate arrangements were made for the efficient treatment of the child of pre-school age. Zinc ionisation had been used in his work for this condition since 1918 with greater success than with any other form of treatment. It should be used in uncomplicated tympanic sepsis, in which it would give successful results in 90 per cent. of cases. This achievement was probably due to the provision of antisepsis without irritation. Many cases of complicated tympanic sepsis could be made suitable for ionisation treatment—e.g., by removing granulations.

Acute inflammation of the middle ear had been managed by keeping the child in bed in a semi-recumbent position, with a flannel garment covering the head and face and hanging loosely over the shoulders and chest. Slits could be cut for the eyes. This wrapping was kept on for forty-eight hours, only being raised for meals. The hearing was tested two-hourly to find out what was happening in the tympanum. Drops were sometimes instilled into the ear but were not considered so important as the continuous heat produced by the head-covering, which produced hyperæmia. Irradiation with a Kromayer water-cooled lamp, both before and after perforation of the tympanic membrane, had been given in 9 cases, with rapid resolution of the condition. This lamp had also been used postoperatively in many cases of radical mastoids in which the healing process seemed to be slowing up.

The Proetz displacement method had been used for children with sinus disease, but Dr. Wells was not convinced of its value and would welcome views from other members of the section.

Dr. PHYLLIS KERRIDGE said that there was no need to emphasise the prevalence of chronic middle-ear disease in children to an audience of otologists. She proposed to tell them briefly the results of an investigation designed to ascertain why cases of this disease were encountered so much more commonly in hospital than in private practice. Scarlet fever and measles were responsible for some of the cases; about 12 per cent. of the patients in fever hospitals with these diseases developed aural complications. Since the infection of the ear was usually due to streptococci, statistics of sulphanilamide therapy in these conditions were hopefully awaited. Most cases of middle-ear disease in children, however, were chronic, either suppurative or catarrhal.

She had tested the hearing of over 5000 school-children from various social classes in different parts

of Great Britain. Defective hearing was found to be on the average about four times as common among children attending the public elementary schools as it was among children at schools at which fees were paid by their parents. Over 80 per cent. of all the cases were due to middle-ear disease. Among the more well-to-do group there was not a single case of chronically discharging ear, the defects in this class being very slight residual effects of past acute disease and only affecting 2·8 per cent. of the children. The defects in the poorer group averaged 12 per cent., the worst figures being 22 per cent. in a well-housed but under-endowed orphanage in the poorest part of a small town. There was little difference between boarding-schools and day-schools in either group; nor had climate so much effect as was expected. The average annual rainfall of the East Anglian town tested was only half that of the town near Manchester, yet both these and a housing estate near London gave about the same percentage of defects.

In some of the districts investigated dietary surveys had been carried out by the Ministry of Health or by the Rowett Research Institute, Aberdeen. In the two places at which the worst figures were obtained the diet was deficient in total calorific value, in vitamins A and C, and in protein. It was reasonable to expect that the incidence of chronic middle-ear disease would diminish with improvements in social conditions, especially since it had been shown that the diet of English people usually improved with increase in the family income. Dr. Kerridge did not suggest that nutrition was the only factor in the prevention of chronic middle-ear disease in children, nor had she any evidence as to whether any single food factor was important; but the results obtained by her indicated that nutrition was more important than climate or housing.

Dr. T. C. LONIE, speaking of the ascertainment of deafness and ear-disease in children, emphasised the disparity between the findings in the ordinary school medical examination and by the special testing with the gramophone audiometer, giving as examples the figures found in Wisbech by Dr. Kerridge and those found by his medical assistants. A very great difficulty in treating ascertained defects of hearing lay in the way in which doctors, nurses, patients, and parents became quickly bored with a chronic condition which resisted treatment and did not appear to interfere very greatly with the patient's normal life. Of 144 children who did not pass the gramophone audiometer test twice (10·7 per cent. of the children tested) only 84 reported to the clinic for special examination by a school medical officer. Medical record cards were available for 125 of the children, from which it was found that otitis media or deafness had been already noted in 38. Of the 84 specially examined, present or past ear-disease was detectable in 66 and wax in 34.

The difficulties in ascertaining deafness at the time of a school medical examination were many and included especially the short time available. The results obtained varied widely in different parts of the country and were more likely to be due to variations in the methods and manners of the examining doctor than to differences in the incidence of defective hearing. Perhaps also some of the differences were due to errors in the recording of the statistics by clerks, for the headings under which ear conditions had to be classified for the Board of Education were difficult for laymen to understand.

Dr. Lonie said that, in spite of all the advantages of the gramophone audiometer test, there were grave practical difficulties in using it in a rural area. Since it could not be used in routine school medical inspection, further disorganisation of school work was caused when the hearing was tested separately. It was expensive in time and staff when the child population was scattered. Further, any special examination encouraged the school doctor to neglect a part of the child when he should be making a general examination. For example, some school doctors took no notice of defective teeth since school dentists had been introduced. The invention of a pocket instrument emitting a standard source of sound in such a way that the amount heard could be measured in a minute or two would be a great advance.

Mr. MUSGRAVE WOODMAN read a paper on the

POSITION OF THE PORTMANN OPERATION IN RELATION TO LABYRINTHINE VERTIGO

He said that operation was rarely necessary in this condition, which might be due to labyrinthine hypertension. Vertigo might be the earliest and only symptom of vascular hypertension. Derangement of water metabolism did not seem to be so common a cause of vertigo in this country as in Denmark, but he recalled 3 cases in which tinnitus and vertigo were abolished by restriction of water intake and by the administration of Salyrgan or a similar preparation. As Sir James Dundas-Grant had shown, a complete block of the eustachian tube could cause absorption of air in the tympanum and a vascular congestion of its walls and of the adjoining labyrinth. Increased endolymph was then secreted. If a bougie were introduced at intervals into the tube after cocainisation, complete cure followed in most cases. A few intractable cases required a major operation. The Portmann operation should be carried out under local anæsthesia, and, if the cellular development of the bone was good, and good illumination was obtainable, it was quite easy. (Details of the operation, illustrated by diagrams, were given at the meeting.) Sepsis in the middle-ear cleft was an absolute contra-indication for this operation.

Mr. Woodman reported 11 cases, of which 8 had been operated on by him and 3 by Mr. Stirk Adams. There were no fatalities or accidents (such as damage to the facial nerve). Vertigo was completely cured in 8 of the cases, 1 patient was much improved, 1 showed no improvement, and 1 could not be traced subsequently. The tinnitus was unaffected in 8 cases. The hearing was improved in 5 cases, unaffected in 4, and deteriorated in 1 case. The operation was at least as easy to perform and as free from danger as an operation on the external semicircular canal, and the Portmann operation had the added advantage that the hearing might be improved.

Mr. C. S. HALLPIKE and Mr. A. J. WRIGHT described

HISTOLOGICAL CHANGES IN THE TEMPORAL BONES

in a person who had died with slight unilateral Menière's disease. These were similar to those published previously by Mr. Hallpike and Prof. H. Cairns.

ROYAL ACADEMY OF MEDICINE IN IRELAND

AT a meeting of the section of anatomy and physiology on May 19, with Prof. J. K. JAMIESON, the president, in the chair, Dr. E. F. MACCARTHY read a paper on

Diurnal Variations in Hæmoglobin

by himself and Dr. D. D. VAN SLYKE. He said that diurnal variations of hæmoglobin in the blood of

normal people have been reported by many observers, and variations of 20–30 per cent. have been recorded in a given subject during the same day. The methods employed have not been so precise as those now available. Colorimetric methods do not allow for the effect of variations in substances other than hæmoglobin, such as lipids, which may affect the light absorption of the samples. Oxygen-capacity values can be significantly lowered by the amount of carbon monoxide in the blood of modern man. In eighteen young men hæmoglobin determination by Van Slyke and Hiller's manometric CO capacity method were performed at intervals of two to three hours from 9 A.M. to 11 P.M. on one or more days. The range between highest and lowest values in an individual through a day averaged 1·3 volumes per cent., the greatest range seen in any of the twenty-three observed days being 2·3 volumes per cent., equivalent to 11 per cent. of the mean hæmoglobin content for the day. Usually the hæmoglobin content was lower in the evening than in the morning; but a subject showing this change on one day reversed it on another. The accuracy of this method is shown by the fact that the mean difference between duplicate analyses was only 0·06 volume per cent. Dr. MacCarthy attributed the much greater ranges of diurnal hæmoglobin variation reported in the past literature to the less accurate methods of analysis. He thought the time variations were possibly due to the discharge of some reservoir such as the spleen. The main point of the present investigation was to find out what margin of error it was necessary to allow for in assessing the significance of changes in hæmoglobin readings from day to day.

ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE

AT a meeting of this society on June 15, with Sir RICKARD CHRISTOPHERS, the president, in the chair, a discussion on

The Sulphonamides in Tropical Medicine

was opened by Dr. G. A. H. BUTTLE. He traced the stages in the development of sulphonamide therapy from the discovery by G. Domagk in 1935 that Prontosil Rubrum is therapeutically active against streptococcal infections in mice. Later in 1935 J. Tréfouël, F. Nitti and D. Bovet observed that the simpler compound sulphanilamide is equally effective, and since then the activity of various sulphanilamide derivatives has been investigated. These derivatives can be divided into two classes according to whether the substituents are introduced into the amino group or the amide group of sulphanilamide: examples of the former are prontosil rubrum, Prontosil Soluble, Rubiazol, Proseptasine and Soluseptasine, and of the latter Uleron, Albucid and M. & B. 693. Substances in the first group probably break down into sulphanilamide, whereas those in the second group are probably themselves the active agents.

The first group is on the whole less toxic but also less effective than sulphanilamide—in mice therapeutic doses of proseptasine, which is poorly absorbed, produce a sulphanilamide concentration in the blood of only 4 mg. per 100 c.cm., this being less than a quarter of that obtainable with sulphanilamide. Proseptasine is therefore not suitable for severe or resistant infections. Rubiazol, which is like prontosil rubrum with an added carboxyl group, and which seems to break down in the body more slowly than prontosil, is milder in action and relatively non-toxic. Soluseptasine and prontosil soluble, given parenterally, are rapidly excreted, so that injections should be given at short intervals. Since 5 c.cm. of either compound is equivalent only to about half of a 0·5 g. sulphanilamide tablet, enormous quantities (about 120 c.cm. daily) are necessary if no preparation is given orally—that is, assuming that sulphanilamide is the active principle. Of the second group of derivatives M. & B. 693 has, Dr. Buttle said, a range of activity definitely greater than that of sulphanilamide: it has given good results in pneumonia and meningococcal meningitis, and to a less extent in pneumococcal meningitis and in staphylococcal infections. Uleron is used mainly in gonorrhœa; except for its effect on the nervous system it is less toxic than sulphanilamide, and the possibility of peripheral neuritis developing may be combated by giving short courses. Albucid has given good results in gonorrhœa and no toxic symptoms have been noted with this drug. The mode of action of sulphonamide drugs is as yet an open question: the essential part of the sulphanilamide molecule for in-vitro activity appears to be sulphanilic acid, but it seems that the amide is necessary in vivo.

Filarial elephantiasis appears to have been cured (H. Floch 1936, P. Berny and E. Gippet 1937, M. Advier 1937, M. Chabeuf 1938) by small doses of prontosil rubrum or proseptasine—namely, 1·5 g. daily for six days. The effect is due to the action of the drugs on the secondary infection, and not on the filaria itself.

In *malaria* L. T. Coggeshall (1938) has shown that 0·5 g. sulphanilamide, given to monkeys on the first, third and fifth days after infection with *Plasmodium knowlesi*, prevents the appearance of the parasites in the blood altogether, whereas they appear in control animals on the fourth day and death occurs in from nine to twelve days: if sulphanilamide is started on the fourth day after infection the parasites sometimes disappear within two days. Given before infection it appears to have a prophylactic effect. On the other hand with *P. relictum* or *P. cathemerium* in canaries, and with *P. lophuriæ* in chicks the drug causes no delay in the appearance of the parasites—the sodium salt of M. & B. 693 produces a delay of one day only. R. N. Chopra (1939) reports that M. & B. 693 is more effective than Atebrin in monkey malaria. In 5 cases of G.P.I. bitten by mosquitoes infected with *P. falciparum*, J. A. Sinton and others (1939) showed that proseptasine (9 g. daily before infection and continued until eight hours after infection) prevents the appearance of parasites (in the one failure the incubation period was twenty-two days compared with eleven days in the control cases) but experiments made by W. Kikuth on canaries similarly infected with sporozoites of *P. relictum* gave negative results. In the treatment of tertian and quartan malaria beneficial effects are reported by some authors (D. de Léon 1937, Y. van der Wielen 1937, R. A. Hill and M. H. Goodwin 1937, and R. Pakenham-Walsh and A. Rennie 1938) whereas others (W. E. B. Hall 1938, G. H. Faget et al. 1938, and A. N. Kingsbury 1938) met with failure, perhaps because of differences in the susceptibility of different strains of plasmodia. Dr. Buttle pointed out that the drugs do not seem to be nearly as effective in the human disease as in monkeys, so that they are not likely to prove useful in the treatment of established cases in man.

Turning to bacterial infections, Dr. Buttle referred to the large number of favourable reports on M. & B. 693 in *pneumonia*, and to the value of

M. & B. 693 and sulphanilamide in *meningococcal meningitis*—e.g., R. B. Usher Somers 1939, J. Bryant and H. D. Fairman 1939, and G. Muraz et al. 1938. Experimental *plague* infections of rats and mice have been cured with M. & B. 693 (H. Schütze 1939), and P. Durand (1939) found that M. & B. 693 (2 mg. per gramme body-weight a day) will protect mice against 10,000 m.l.d. of *Bacillus pestis*. Clinically, J. A. Carman (1937) cured 3 out of 6 cases with prontosil, and R. S. Vine (1938) reported 3 recoveries with prontosil soluble in doses of 5–10 c.cm. Sulphanilamide will protect mice infected with 100 m.l.d. of *B. typhosus* culture so that it might be useful in the first week of *typhoid* fever. K. V. Subbarao (1938) reported benefit in one typhoid case on the fourth day, and E. H. R. Harries and his colleagues (1939) showed that in the established disease the blood-culture becomes negative although in some cases this takes ten days. Clearly more evidence must be awaited before passing judgment. In guineapigs large doses of sulphanilamide render the spleen sterile in *Brucella abortus* fever but infection persists in control cases (R. F. Montgomerie 1938 and B. D. Chinn 1938). The guineapig's spleen is also sterilised in *Br. melitensis* infections and good experimental results are reported by E. E. Menefee and M. A. Poston (1939), although clinically C. Z. Neumann (1938) reported failure in this infection, but his dosage was inadequate. Success has been reported in *Br. abortus* cases but probably many failures are not made public.

The only virus infections on which sulphanilamide has a direct effect, continued Dr. Buttle, are those of trachoma and lymphogranuloma inguinale. In experimental mouse infections with *lymphogranuloma* virus injected intracerebrally sulphanilamide gives some protection (F. Bär 1938) and F. O. MacCallum and G. M. Findlay (1938), reported still better results with the glucose compound of 4′:4-diaminodiphenylsulphone. Clinically, G. R. Hamilton (1938) reports that sulphanilamide, 6 g. daily gradually reduced to 3 g. daily for eight days, cured 13 out of 15 cases; 2 relapsed and it may be that the drug is only effective during the stage of glandular involvement. In *trachoma* the corneal improvement with sulphanilamide is more marked than that of the conjunctiva (B. Lian 1938, F. Loe 1938, and R. Kirk et al. 1938), and E. Burnet and his associates (1939) report similar disparity but greater improvement by a 7 per cent. solution of a derivative of 4′:4-diaminodiphenylsulphone. W. O. McCammon (1939) reported that in 4 cases of *smallpox* treated with sulphanilamide, 0·65 g. three- or four-hourly, the pustular stage did not develop, whereas 3 other cases in the same epidemic all had typical pustules and did not recover so rapidly as the treated cases. In another case (C. King and K. A. de Rozario 1938) the secondary rise of temperature at the beginning of the pustular stage was prevented by treatment with prontosil, 2·5 g. daily. It seems to prevent the secondary streptococcal infection of the skin with which the pustular eruption is associated and thereby renders the disease relatively mild.

Lieut.-Colonel J. A. SINTON held that in malaria the new drugs are not as effective as the old ones. In malignant tertian infection the condition relapses after reducing the dose of proseptasine, and against *P. vivax* he had observed practically no effect. In one case with both *P. ovale* and quartan infection proseptasine, 6 g. daily for six days, was without effect but quinine was satisfactory. In this case proseptasine was continued for eighteen days on account of the patient's septic condition and after an eight days' interval another course was given but still with no effect. However he believed that a true causal prophylactic action was demonstrated with proseptasine in the 4 malignant tertian cases to which Buttle had referred, and he thought that the problem of tropical rural malaria might be solved by a drug having this action if it was generally applicable to the tropics and if one or two doses would suffice for two or three months. He suggested that better results might be obtained from a sulphonamide which is excreted more slowly.

Dr. PHILIP MANSON-BAHR referred to a case of recurrent staphylococcal ulceration of the hands of two and a half years' standing, for which a distinguished surgeon had contemplated removing both hands. The patient was treated with uleron, and apart from some limitation of movement the condition has cleared up completely. In pneumonia, he said, M. & B. 693 is a miracle—the dullness disappears and the breath sounds become normal within three days. He had treated 5 cases of *Br. abortus* infection (all with a positive blood-culture) with M. & B. 693, 3 g. daily, reinforced with intramuscular sulphonamide, and in all the temperature fell to normal and the size of the spleen diminished; later there was a relapse but he thinks that this final flare-up may be normal. In one case of *Br. melitensis*, proved by blood-culture, the patient was better after the same dosage of M. & B. 693, but he had painful nodules at the site of injection. Dr. Manson-Bahr does not favour this treatment in lymphogranuloma inguinale and climatic bubo in the purulent stage—it is probably necessary to give sulphanilamide at an early stage—and in a case of ulcerative granuloma due to an anaerobic non-hæmolytic streptococcus sulphonamide was without effect. He had seen 2 cases diagnosed clinically as ulcerative endocarditis, and both apparently dying, recover after treatment with prontosil, 30 c.cm. daily intravenously, together with sulphonamide by mouth.

Dr. DYCE SHARP said that in one group of 750 cases of tetanus in West Africa the mortality-rate was about 50 per cent., but with sulphonamide treatment he had had 5 consecutive recoveries. If the mouth was not open (in 3 of his cases lockjaw necessitated rectal feeding) he gave the drug in water and gum intramuscularly every four hours. Serum was not given since in his view it is useless.

Dr. RAYMOND LEWTHWAITE described experiments in which a group of guineapigs were inoculated with the rickettsia of typhus (tsutsugamushi) and treated during the incubation period with various combinations of prontosil rubrum, prontosil soluble, soluseptasine, uleron, sulphonamide-P or M. & B. 693. Out of a total of 27 guineapigs 25 had the usual severe febrile reaction and in 2 it was mild. There was no success in the treatment of the established disease.

Dr. N. HAMILTON FAIRLEY said that *B. coli* infections in tropical sprue stand treatment with prontosil or proseptasine well and clear up. He thought M. &. B. 693 particularly useful in the fulminating pneumonia associated with chronic malarial cachexia. Clinicians in the East, he said, are particularly apt to give drugs by injection when they might be given by mouth; this practice is often responsible for an inadequate dosage of the drug and for septic infections at the site of injection.

Mr. A. FELIX, D.Sc., remarked that from private communications the evidence was against employing sulphonamides in typhoid fever.

Dr. BUTTLE, in reply, posed several questions relating to malaria. What is the effect of the drugs on *P. knowlesi* infection of G.P.I. cases? Are the sporozoites of *P. vivax* influenced by proseptasine?

He would like to see work on the sporozoite stage in vitro. In tetanus R. L. Meyer (1939), who says tetanus toxin is destroyed in vitro by aerobic incubation with sulphanilamide, has recently reported cure in 80 per cent. of mice infected with tetanus spores, but experimental results are not uniform, perhaps because of differences in strain. Dr. Buttle suggested that in brucella infection sulphonamide drugs given with Brucellin might be more effective. He wondered whether tropical sunlight affects the action of sulphanilamide adversely (cf. A. J. Nedzel and L. Pincussen 1939) and whether the incidence of hæmaturia after M. & B. 693 is greater in the East because of the formation of urinary calculi.

REVIEWS AND NOTICES OF BOOKS

Clinical Studies in Psychopathology

By HENRY V. DICKS, M.D. Camb., M.R.C.P., assistant medical director, Tavistock Clinic. London: Edward Arnold and Co. 1939. Pp. 248. 12*s*. 6*d*.

BY putting together his systematic lectures Dr. Dicks has bridged the gap between the classical writings of Freud, Jung and Adler and the loose and occasional writings which have made psychopathology accessible but not necessarily intelligible to the student. The task of "getting over" psychopathology to the student and practitioner is by no means easy. Hitherto the data of mental medicine have been confined to the more clinical picture of types of disturbance, and only clinical psychiatry has presented the pathology and ætiology of psychosis systematically. Even in the writings of the great pioneers the theory has tended to outrun the clinical aspects of individual cases, so much so that only the analyst has been able to get a really clear grasp of Jung and Freud. Dr. Dicks has here brought theory and practice together in a volume largely devoted to case-material, clearly expounded in the light of current theories. To purists of particular schools his sober eclecticism will be an irritant, but to the student eager to know and to understand the nature of psychogenesis, his method of approach will prove a stimulus. The chapters deal in an orderly manner with outstanding clinical forms, and the cases give a very fair insight into the mental mechanisms involved. Though the expert will join issue with him on many points of theory and interpretation, no student and practitioner, or prospective psychotherapist, can afford to ignore this useful study.

Craniocerebral Injuries

By DONALD MUNRO, M.D., F.A.C.S., surgeon in chief for neurological surgery, Boston City Hospital; assistant professor of neurological surgery, medical school, Harvard University. London: Humphrey Milford, Oxford University Press. 1938. Pp. 412. 21*s*.

MUCH more attention is now being paid to the treatment of head injuries, owing to their increasing frequency and the general realisation that end-results are often unsatisfactory. Provided there has been no gross operable lesion, treatment has hitherto commonly been relegated entirely to the resident and the sister. The time-honoured formula of at least three weeks flat in bed has been followed, and the cases have been considered to be devoid of clinical interest. There are now too many head injuries for the neurosurgeon to accept exclusive responsibility for them, and it is up to the general surgeon to undertake a fuller study of the problems involved. It is the general surgeon that Dr. Munro here sets out to guide.

In order to rationalise his treatment Dr. Munro discusses first the physiology of the intracranial circulation and of the hydrodynamics of intracranial pressure, and then the changes that may arise as a result of an injury. Although autopsy findings are beyond dispute, their significance and their bearing on the relevant clinical states are at present ill understood. The intracranial pressure is not invariably raised in cases of brain injury, indeed at times it is abnormally low, and it is probably unwise to regard this single feature of the condition as the criterion of complex disturbances of the intracranial contents. In an endeavour to simplify treatment Dr. Munro makes some dogmatic but rather contradictory statements and reaches some doubtful conclusions concerning œdema of the brain and congestion of cerebral vessels. Our knowledge of these things is still meagre, and such dogmatism tends to strangle any incentive to further research. The clinical aspects of the subject are dealt with exhaustively; every detail of diagnosis and of treatment is discussed, and this section should prove of the greatest value. The especial importance of nursing care and of feeding is carefully brought out. In the list of alternative methods of feeding an unconscious patient the œsophageal tube might justifiably have been given pride of place, for its use in such cases has probably saved more lives than any other single method of treatment. Dr. Munro puts great faith in the various methods of dehydration in the non-operable group of cases, and recommends that treatment should be controlled by periodic estimations of the cerebrospinal fluid pressure. Provided this is done, the repeated employment of magnesium sulphate per rectum, of intravenous injections of hypertonic solutions, and of drainage of cerebrospinal fluid by lumbar puncture is rational. Whether the value of these procedures depends entirely on their effect on the intracranial pressure or whether they also exert a more direct effect on the pathological changes is not yet clear; this field of clinical research awaits thorough exploitation.

In this country convalescence is graduated in stages, each advance being dependent on freedom from symptoms. Dr. Munro scorns the value of symptoms, and his first period of convalescence begins "when the intracranial pressure has been re-established and fixed at normal," and the patient is then kept for two weeks flat in bed, a period that may be far too short in severe injuries to the brain. The need for the patient's coöperation during his return to a normal life is well recognised, and the author is particularly thorough in his management of this critical period. His attitude towards the post-contusion syndrome is equally critical, and his remarks on exploratory trephination deserve careful attention. In cases needing operation Dr. Munro follows orthodox lines, except in the treatment of lacerations and compound fractures. "A compound fracture of the skull," he says, "is a problem in sepsis and nothing else" but "provided the wound is not manipulated . . . significant radial spread of bacteria does not take place for 48 hours . . . with the exception of hæmolytic streptococci and pneumococci." He recommends that a dry sterile dressing should be applied to the wound, and the patient should not be operated on for at least 24 hours after the receipt of the injury "whether or not he is in shock during the period." Débridement is performed

during the second 24 hours if the patient's condition allows. This policy of delay is however opposed to principles generally accepted here, for the earlier débridement is performed the lower is the incidence of sepsis, and Dr. Munro's own figures appear to condemn it.

The specialist will find in this book much to stimulate him; he will be informed on such rarities as cerebrospinal rhinorrhœa and traumatic arteriovenous aneurysms, and the bibliography is useful. The general surgeon will begin to realise that head injuries are not so uninteresting after all, and Dr. Munro's sound advice will enable him to treat his patients rationally and get them back to work in the shortest possible time.

The Pneumonias

By HOBART A. REIMANN, M.D., professor of medicine, Jefferson Medical College, Philadelphia. London: W. B. Saunders Company. 1938. Pp. 381. 25*s*.

OF the half-dozen books on pneumonia produced in America in the past few years, this is one of the best. The author has the faculty of analysing and presenting in a compact form the great mass of literature on pneumonia which has lately accumulated, so that in some 350 pages he gives a full review not only of the pneumococcal pneumonias but of the many other varieties as well. After devoting about half the book to all the aspects of pneumococcus lobar pneumonia—the chapter on pathology and pathogenesis is especially good—he goes on to discuss the atypical pneumonias under a bacteriological classification, those caused by cocci, by bacilli, by filtrable viruses (psittacosis is included in this group), and by moulds and fungi. He recognises a primary influenzal pneumonia but is surely unfair to our own workers in ascribing their original researches on the influenza virus to an American stimulus. In the last part of the book are described the pneumonias that arise as part of a systemic infection, for example in tuberculosis, tularæmia and typhoid, and the secondary forms of pneumonia. The author makes many dogmatic statements that would not be universally accepted, and the chapter on the pneumonias of children will not appeal to British pædiatricians. A curious omission, too, is the absence of any reference to the Francis skin test. On the whole, however, Dr. Reimann covers his wide field comprehensively and accurately.

Common Diseases of the Skin

(3rd ed.) By R. CRANSTON LOW, M.D. Edin., F.R.C.P.E., F.R.S.E., consulting physician to the skin department, Royal Infirmary, Edinburgh; formerly lecturer on diseases of the skin, University of Edinburgh. Edinburgh: Oliver and Boyd. 1939. Pp. 319. 10*s*. 6*d*.

THIS handbook, which is based on Dr. Cranston Low's lectures to his students, is clearly written in plain straightforward English. The opinions expressed are the author's own, based on many years of clinical observation, and as might be expected they are sometimes at variance with orthodox teaching. Thus, in impetigo it is hard to agree that Ung. hydrarg. ammon. should never be used, for although it is not ideal it is so often employed with success as to have become the standard remedy. A small daily dose of ultraviolet light, probably the best treatment of all, is not mentioned. For furunculosis boric and starch poultices are recommended, but the usual experience is that these tend to produce satellite boils. There is no mention of magnesium sulphate paste or solutions of ichthyol, both more reliable methods of treatment. The section on ringworm is well done, but the common interdigital ringworm of the feet is only given a few lines, whereas ringworm of the beard, a rare disorder nowadays, is given a page and a half. Dr. Low's well-known theories as to the causation of eczema are interesting but not conclusive, and his statement that all cases of dermatitis should have a daily warm bath and that soap used once a day does no harm if it is washed off afterwards is contrary to the usual advice given to such patients. The treatment advised for dermatitis autophytica—unmasking the patient and confronting her with evidence that the lesions are self-produced—may be successful as regards the skin lesions, but there must be a grave risk of starting an altogether different set of symptoms. It is better to hand these cases over to a skilled psychologist as soon as a diagnosis of self-produced lesions is made. The sections on lupus vulgaris and on growths of the skin are good.

The illustrations, and especially the histological diagrams, are excellent, and in spite of its shortcomings this book will appeal to many who want a clear outline of the subject.

Studies of Trauma and Carbohydrate Metabolism

With special reference to the Existence of Traumatic Diabetes. By VIGGO THOMSEN. Copenhagen: Levin and Munksgaard. 1938. Pp. 416. D.Cr.15.

A CLAIM for compensation on the grounds that diabetes mellitus developed as the result of an accident may present a problem of some difficulty. Since the experiments of Claude Bernard it has been realised that a transient glycosuria may follow stimulation of the central nervous system, and the hyperglycæmic action of shock, physical or mental, is now clearly recognised. Nevertheless one cannot be certain that if a persistent diabetes develops after shock or injury the trauma was indeed the main cause of the permanent derangement of metabolism. Dr. Thomsen gives first an extensive survey of past research on this problem, and then a detailed account of his own careful experiments. Determinations of blood-sugar level and of sugar-tolerance curves, together with tests for glycosuria, were carried out on accident cases admitted to hospital; the results showed that a temporary disturbance in carbohydrate metabolism occurred in over half of the injured but otherwise normal persons. The incidence of such disturbance was greater in older than in younger patients. The abnormality of the sugar-tolerance curves was less after treatment with ergotamine, suggesting that the abnormality might be associated with activity of the sympathetic nervous system. Although injury may cause exacerbation of an existing diabetes, the increased intensity of the condition is usually not permanent, and it seems unlikely that a persistent diabetes can be induced in a previously non-diabetic person by physical accident. Very mild cases of diabetes which have given rise to no obvious subjective symptoms may become easily recognisable after trauma because of a temporary exacerbation. Continued tests may show that although the temporary increase in intensity disappears, a slight glycosuria may remain. In such a case trauma is not the cause of the diabetic condition, but the cause of its recognition.

Although the English translation is not smooth enough to make easy reading, this comprehensive account of what is known of the relation of trauma to carbohydrate metabolism is well worth having.

THE LANCET

LONDON: SATURDAY, JUNE 24, 1939

PENSIONS FOR SPINSTERS ?

PEOPLE with grievances are never popular—least of all those whose demands involve heavy claims on the public purse. It says much therefore for the courage and persistence of the National Spinsters Pensions Association, and particularly of their leader Miss FLORENCE WHITE, that the Government agreed last year to appoint a committee to inquire "as to the position of unmarried women under the Contributory Pensions Act, and on the practical questions which would arise if the age at which Old Age Pensions under those Acts are payable to unmarried women were lowered." This committee seems to have been unable to come to any very definite conclusion.[1] Much of the spinsters' case failed to survive the cold light thrown upon it by the Government actuary and appears to have been based on misconceptions due to the extreme complexity of the finance of the insurance acts. For example, in deploring their inability to leave a pension to dependents, as a man can leave pensions for his widow and orphans, the spinsters apparently forgot that they pay only half a man's contributions. The plea that middle-aged spinsters of today should be called "war spinsters" because the men they might have married were killed in the late war has brought to light the curious and almost forgotten fact that in the years before the war—for reasons never quite clear—an increasing number of men were remaining unmarried. Not only did the war cause a sudden rise in the marriage-rate but its effect in this respect was lasting, for the rate has never fallen to its former low level. Hence the Government actuary was able to assure the spinsters that they would not, statistically speaking, have been married even if there had been no war.

The committee nevertheless agreed that the main contentions of Miss WHITE and her supporters contain some substance. In the first place, it is established that unmarried women's contributions are used, to a small extent, to pay for pensions to widows and orphans, and the N.S.P.A. maintains in effect that men ought, collectively, to pay for their own widows and not ask spinsters for contributions to a benefit they have only a remote possibility of enjoying. KIPLING'S sea-captain who jeeringly promised his rival "and I'll be good to your widows, Rube, as many as I shall find," was speaking as man to man and would hardly have expected his unmarried women friends to contribute. The committee believes that the spinsters should pay something for a potential benefit, but the majority agree they are now paying too much. The most serious grievance, however, is that widows (under a complicated series of enactments) receive 10*s*. a week pension at an average age of 55½, whereas all spinsters have to wait until 65. This is felt to be an indefensible inequity. It is common knowledge that the position of an ageing spinster is often a tragic one. She has, according to the Government statistics, at least as great difficulty in making a livelihood as the widow, and a much greater difficulty than the younger woman. In some large occupations her chance of retaining a job diminishes seriously every year after 30, and superior skill and experience count for little. A woman so placed will naturally compare her own lot unfavourably with that of the pensioned widow who works no harder but enjoys that extra weekly 10*s*. which in the popular phrase "makes all the difference." Unfortunately these anomalies are easier to state than to remedy. The widow cannot be deprived of her early pension—though whether she should ever have had it if childless is another matter. The cost of "evening-up" by giving pensions to spinsters at 55 would amount to £5,800,000 per annum extra in ten years' time. Further, it would, as the report shows, be almost impossible to withhold the privilege from all other insured women and even from the uninsured wives of insured men. To cover these new benefits the women's weekly contribution would have to be raised from 5½*d*. to 1*s*. 5*d*. a week and large contributions from the Exchequer would be required as well.

At this stage it becomes necessary to ask whether a nation with an increasing proportion of aged persons in the population is in a position to grant pensions to any large section at an earlier age. In the years ahead more and more of the public will be in bath-chairs, and relatively fewer will be available to pull them along. If the bath-chairs take up all the time and energy of the able-bodied, what about the perambulators whose occupants are the means of carrying on the race ? Can we afford to let millions of women subside into bath-chairs at 55 ? The health aspect of this knotty problem, which is barely touched on in the report, should not be overlooked. It is pointed out that many women of 55 are perfectly fit for work, though many are worn out by the hardship of their lot. Between 60 and 65 10 per cent. of insured spinsters are drawing disablement benefit, and a great deal of the reluctance to employ women over 50 is due to not unfounded doubt about their physical fitness. But it seems wholly unnecessary that such large numbers should be thrown prematurely on the industrial scrap-heap. Progress in industrial hygiene and a higher standard of living for the individual worker may do much to preserve the wage-earning capacity up to an age when pensions can be granted without casting an intolerable burden on the community.

1. Report of the Committee on Pensions for Unmarried Women. London: H.M. Stationery Office. Pp. 78. 1*s*. 3*d*.

THE MISUNDERSTOOD BOWEL

RADIOGRAPHY has changed our conception of the movements of the large intestine. It is now recognised that the fluid contents of the ileum pass fairly continuously into the cæcum and ascending colon, which are filled by pressure from above. At intervals a mass movement takes place which propels the fæces rapidly along the transverse colon and into the sigmoid. This movement may produce a call to defæcation or may merely fill the distensible sigmoid. The colon thus normally contains a considerable quantity of food residue, fluid in the proximal section and more solid in the distal, the greater amount being in the cæcum and sigmoid. This fact has been confirmed at autopsy on soldiers and others who have died violently, as well as on the X-ray screen by FIESSINGER and HUTET.[1] The normal colon is largely filled with a mixed residue of the meals taken in the previous two to five days, and this fullness causes the host no discomfort. The call to defæcation is produced by distension of the rectum, due either to fæces being pushed in by the mass movement from above, or to an enema from below. Defæcation empties the whole of the left colon and sigmoid, leaving mainly liquid fæces in the cæcum and ascending colon.

So much for the healthy gut. Fiessinger and Hutet [2] have lately given patients on a normal diet a small amount of barium emulsion before their evening meal for several days, and have followed its progress radiologically. They find that there is actually little difference between the colons of normal and constipated people: both contain the mixed residues of several days. In the constipated person, however, the mass movement that carries the fæcal column onwards from the hepatic flexure is ineffective, so that there tends to be an accumulation of fæces in the proximal half of the colon. In slightly costive people—those whose bowels open sometimes without help and sometimes need the aid of mild laxatives—the large intestine is nearly full. Paradoxically it is only the severely constipated who have an empty colon—those who take regular purgatives or a greatly restricted diet. In such cases the patient may develop an abnormal sensibility to the fullness of his colon, and the desire to keep it empty may become an obsession. Even when it is empty, spasm associated with irritation of the mucous membrane may still give a sensation of fullness. This form of constipation, which is common enough, Fiessinger and Hutet call "constipation by deficit."

Defæcation is a conditioned reflex shared by man with other house-trained animals, and all cases of functional, as distinct from organic, constipation are due to interference with this reflex. To the layman constipation is difficulty with defæcation, whatever the cause, and he bases his diagnosis on the absence of the regular daily sensation of distension in the rectum which is the detonator of the reflex. In some cases persistent inhibition of the reflex may have reduced the sensibility of the rectum so that its owner no longer knows when it is full, and here cure must depend on training and encouragement. But usually any but the smallest quantity of fæces in the rectum produces discomfort, and defæcation will be normally carried out if the rectum is regularly filled. To attain this goal the constipated person must aim at keeping his colon full, not empty, so that he can take advantage of the mass movement in the colon when it comes. This calls for a high-residue diet rich in fruit and vegetables and the substitution of purgatives by mucilages such as psyllium seeds which add bulk to the fæces. Such measures can be seen radiologically to restore the normal filling of the colon, and with it a daily action of the bowels. These facts cannot be too widely advertised among our purgative-ridden generation seeking for a sign.

1. Fiessinger, N., and Hutet, G., *Arch. Mal. Appar. dig.* 1933, 23, 689.
2. Fiessinger and Hutet, *Pr. méd.* April 22, 1939, p. 611.

ASSAY OF SEX HORMONES

BESIDES being an indispensable means of standardising important therapeutic materials, the biological assay of sex-hormone activity is a potentially valuable means of estimating endocrine function in individual patients. The soundness of the methods employed is accordingly a matter of concern not only to the laboratory endocrinologist but also to the clinician. If the latter is to prescribe hormone preparations which are not chemically pure substances, and which therefore have to be assayed on laboratory animals, he must have confidence in the system of biological assay. Again, if he seeks help from the laboratory in making a diagnosis, and is told that the urinary excretion of a hormone deviates from the normal, he must be sure that the methods used are quantitatively accurate. For these reasons the publication of two critical studies [1 2] on these subjects will be welcomed, though their conclusions are in some respects disturbing.

The Medical Research Council has for many years promoted research into biological standardisation, and the report by Mr. EMMENS on the variables affecting the estimation of androgenic and œstrogenic activity illustrates the traditional combination of painstaking laboratory work with statistical appraisement of the results. Though the mathematical treatment appears formidable, this very technicality will be a virtue if it convinces the less specialised reader that proper "hormone assay" is more easily said than done. The first section deals with the technique of assaying crystalline œstrogens (œstrone, œstradiol, and œstriol) on ovariectomised mice, the effect of changes in sensitivity of the colony of mice, and the factors—such as subdivision of the dose injected, and presence of augmentor substances—which may influence the response and entirely alter the apparent relative activity of

1. Reports on Biological Standards: V. Variables Affecting the Estimation of Androgenic and Œstrogenic Activity. By C. W. Emmens, M.Sc. *Spec. Rep. Ser. Med. res. Coun., Lond.* No. 234. London: H.M. Stationery Office. 1939. Pp. 71. 1*s.* 3*d.*
2. Comparative Studies Concerning the Strengths of Œstrogenic Substances. By K. Pedersen-Bjergaard. London: Humphrey Milford, Oxford University Press. 1939. Pp. 198. 15*s.*

œstradiol or œstriol in comparison with international standard œstrone. The second section covers the application of these methods to impure œstrogenic extracts from urine. Here the effect of augmentor substances present in the extracts themselves is unavoidable, and considering that several œstrogens are probably present, it is thought impossible in practice to arrive at a trustworthy estimate of their nature or amounts. Analogous investigations on the biological assay of the androgens are recorded: here the difficulties are of the same kind, but less serious. The remainder of the report deals with the factor of variation in mice and capons as it is found in sex-hormone assays. Innate differences, probably genetic, contribute most largely to individual variation, but there is also a time-to-time variation in the sensitivity of a colony as a whole which is still unexplained.

Dr. PEDERSEN-BJERGAARD is concerned with a more limited field, surveyed in greater detail. After an admirable summary of what is known of the occurrence and properties of œstrogenic substances and of methods for their assay, he describes his own inquiries, which are particularly directed to the comparative assay of œstrogens in terms of standard substances and to the way these apparent comparative strengths vary with the animal employed and the method of administration. The conclusions are unequivocal: the international œstrone standard, he finds, can be used only in the assay of œstrone preparations, and the œstradiol-monobenzoate standard in the assay of œstradiol-monobenzoate preparations. The comparison of other œstrogenic substances, mixtures of substances, and crude œstrogenic extracts with the standard preparations gives results that vary so enormously with methods of administration that no numerical expression of relative activity is possible. These conclusions are analogous with those of EMMENS on the comparison of œstradiol, œstriol, or urine extracts with œstrone, and it seems that biological standardisation of œstrogenic therapeutic substances is illusory except when the materials are either of the simple substances œstrone or œstradiol monobenzoate; in which case the appropriate tests of purity should be the accurate and sensitive ones provided by measurement of physical and chemical properties, and the unit should be a weight and not a conventional "international unit." It is indeed unsatisfactory that the clinician should depend on a statement based on biological assay when either a more accurate physical or chemical test of purity is available or else the assay is untrue because the activity of the material can only be estimated, in a conventional way, by comparison, in a non-human species, with a standard substance with which it is actually incommensurable. Fortunately there is a tendency to state the doses of pure œstrogens and androgens in weights, and there has been no movement towards calibrating the dosage of the new synthetic œstrogens in any way other than in terms of weights of pure substance administered to human beings.

As regards hormone assays for diagnostic purposes, the words of the preface to the Medical Research Council report may be quoted: "It is evident that, in the cases of both œstrogens and androgens, premature confidence in the functional significance of crude and empirical determinations of biological activity is likely to hinder progress, and that better chemical methods of separating small quantities of the different active principles are urgently needed." Laboratory diagnosis of minor abnormalities of endocrine function by biological examination of blood or urine is on an unsound foundation, and to place it on a sounder one is likely to prove one of the hardest tasks of biological microchemistry.

ANNOTATIONS

THE PHYSIOLOGY OF THE SEASIDE

IN a paper read at Poole before the Royal Sanitary Institute, Dr. Maule Horne puts in a strong plea for the medical study of climate.[1] Analysis of the operative factors in climatic and weather changes, which certainly affect sensitive persons, and analysis of the clinical reactions that appear to accompany them are two related branches of study which have lately made good progress in America and upon the Continent. The aim of "bioclimatology," as this new branch of science is commonly called, is to measure the reactions of the invalid or convalescent to his physical surroundings, in order to make it possible to utilise these atmospheric and other external influences to the best advantage. Much time and money are lost by ill-chosen holidays without regard to the local climate and the season of the year, and for invalids and convalescents the choice of a climatic resort without sound medical guidance may be positively harmful. To fill the present wide lacunæ in our knowledge the health resort, in Dr. Maule Horne's phrase, must be thoroughly "dissected." A classification according to results is called for, and for this classification it is necessary to investigate by physiological methods the reactions induced at each place in individuals affected by various forms of ill health. Practical steps towards further analysis of the medical value of the coast for delicate children from the cities have been for some time under consideration, and we understand that a beginning may shortly be made both at Margate and at Poole.

1. *J. R. San. Inst.* May, 1939, p. 711.

TREATMENT OF TOXIC GOITRE

SINCE its introduction for the treatment of toxic goitre, it has been widely held that iodine should be reserved for cases in which operation is to be performed and that the preoperative course of iodine therapy should not last more than 10–14 days, lest the patient should become iodine-refractory and her condition deteriorate. After such a course, it has been said, responsiveness to the drug does not return for two or three months. While these views are by no means superseded, they are now more commonly questioned, and it is believed by some that the efficiency of iodine remains constant—the impression

that it wears off being attributable to variations in the intensity of the disease. Whether this is true or not, many patients are today treated with iodine when operation is not contemplated; and many are given the drug for longer periods than 14 days before operation; especially as there are frequent exceptions to the rule that an iodine-free patient can be made fit for operation in this time.

As Lehman and Shearburn [1] point out, the criteria of fitness for operation in cases of toxic goitre are not easily laid down. Having studied the postoperative course of their cases in relation to the preoperative condition and treatment they find on the whole no correlation between the length of preparation and the severity of the postoperative reaction; and this also applies when only a group of cases having initial basal metabolic rates between +36 and +45 are considered. A classification according to severity (as measured by the initial B.M.R.) also shows no simple relation between the different groups and the postoperative reaction. This inconsistency may be explained by the fact that the B.M.R. does not indicate the true severity of the illness; it takes no account of the extent of visceral damage. At the time just before operation moreover the disease may be in an upward phase in one person and a downward phase in another.

Lehman and Shearburn's observations suggest that there is no advantage in prolonging iodine treatment once the patient appears to be safe for operation. As to what constitutes a safe condition they conclude that no rigid rules are useful, each patient being a separate problem. But evidently the experienced clinician can say with considerable accuracy when a patient is ready; for in expert hands thyroidectomy has become one of the safest of major operations.

FLYING AT MODERATE ALTITUDES

IT is widely supposed that repeated flights at a height of, say, 15,000 ft. help the airman to acclimatise himself to low atmospheric pressures. Monaco [2] holds that, on the contrary, they are harmful. The aviator's acclimatisation to high altitudes differs from that of a mountaineer; for the pilot stays only a very short time at the new level and quickly returns to the ground. Gradual adaptation to new conditions is thus rendered impossible, and according to Monaco the frequent alternation between extremes upsets the physiological mechanism. Whereas a stay on a high mountain induces an increase in the number of erythrocytes, repeated high flights cause, after a time, anæmia. True, an increase in red blood-cells has been observed in airmen, but Monaco says that it is merely temporary, is due to anoxæmia, and can only be demonstrated during and immediately after a single high flight. On the pilot's return to earth it soon disappears and is succeeded by a progressive fall in the number of erythrocytes. Monaco claims that the results of his experiments are confirmed by the practical observations of Martin Flack and his collaborators that pilots after repeated high flights become less tolerant of them; and of Armstrong [3] that symptoms of intolerance are manifested by American commercial pilots flying not more than three hours a day at an average height of 7500–13,500 ft. He also reports that in Italy, during a period of ten years, sickness has been 56 per cent. higher among airmen than in the other services, despite a strict medical examination on entry. The trouble is ascribed to the deficiency of oxygen at high altitudes and the consequent lowering of the oxygen tension in the alveoli, producing anoxia of the tissues, shown chiefly by a diminution of reflexes. Monaco cites Strughold and Treutler as showing that even at a height of only 7500 ft. there is an obvious diminution of the patellar reflex if a respirator is not used, and he concludes that a respirator should always be worn after a height of 6000 ft. has been reached—preferably one containing a mixture of gases and with a pressure of oxygen gradually increasing pari passu with the alteration in barometric pressure.

1. Lehman, E. P., and Shearburn, E. W., *Ann. Surg.* May, 1939, p. 412.
2. Monaco, B., *Ann. Igiene, Roma*, April, 1939, p. 249.
3. Armstrong, H. G., *J. Aviat. Med.* 1938, 9, 84.

CARCINOGENS IN HEATED ANIMAL FATS?

TEN years ago E. L. Kennaway found that substances carcinogenic for the skin were formed when living cells, such as yeast cells or human skin, were subjected in a hydrogen atmosphere to temperatures of 700°–900° C. in such a way that slow destruction with the formation of tarry material was brought about. The same thing happened when cholesterol, a constituent of all living tissues, was treated in this way. When tarry material thus obtained was applied to the skin of mice malignant tumours developed at the site of application. The carcinogenic effect produced was a local one. Taking these observations as his starting-point, Prof. E. M. P. Widmark of the University of Lund has treated the skin of mice with alcohol- or petroleum-extracts of roasted coffee, browned butter and horse muscle heated to 275° C. The results, which he summarises in a preliminary note in *Nature* of June 10, are very puzzling. When the skin was painted with the extracts no effects were observed in the skin, but of 23 female mice which survived a period of application, 9 developed carcinoma of the mamma; no such tumours developed in the males. It will be noticed that in these experiments, unlike Kennaway's, the carcinogenic effect was not a local one. Of 26 control animals (sex not stated) treated with extracts of the same foodstuffs not previously heated only 1 developed a tumour in the mamma.

The incidence of spontaneous tumours in the untreated female mice is stated to be 10 per cent. and the appearance of such tumours in 9 of the 23 treated animals seems unlikely therefore to have been fortuitous. But to explain this result is not easy. It is now well known that mammary tumours can be produced in mice by painting the skin with solutions of œstrogenic substances, although the skin itself remains intact. But in such experiments the males develop mammary carcinoma almost as readily as the females, and even if prolonged treatment with œstrogens does not produce tumours of the breast it promotes development of mammary-gland tissue in the males, together with atrophy of the testis. In females, again, such treatment leads to changes in the uterus and vagina readily visible to the naked eye; and Prof. Widmark makes no reference to the presence of such changes. One would therefore have to consider whether his tumours were due to a new group of substances which, though devoid of œstrogenic activity, are specifically carcinogenic for the mamma. Before inquiring into this possibility it will be advisable to await the publication of a detailed paper, which is promised, and the confirmation of the findings by other workers.

Widmark does not mention the publications of Prof. A. H. Roffo of Buenos Aires, who for a number

of years has been studying the effects produced in cholesterol by irradiation, by which this substance acquires carcinogenic properties when applied to the skin. Similar chemical changes can be brought about by heating cholesterol, and last year Roffo [1] published a detailed report in which he claimed to have produced cancer in the stomach of rats fed for about two years on a diet of bread and milk with the addition of equal parts of animal fats containing cholesterol, heated for thirty minutes to 350° C. A large number of animals were used and the paper is copiously illustrated with photomicrographs. These certainly show ulcerations and extensive hyperplasia of the gastric mucous membrane which Roffo describes as carcinomatous. But there were no metastases and the histological evidence for the malignancy of the lesions produced is, so far as one can judge from the photographs, not convincing. The lesions may have been due to the direct action on the gastric mucous membrane of the cholesterol chemically altered by heating; but there is also the possibility that they resulted from interference with the usual gastric functions, caused by excess of fat in the diet.

The verdict on the allegation that the processes used in preparing food—such as frying, roasting and grilling—may produce carcinogenic substances is therefore "not proven." But in view of its importance the subject should be fully investigated. There appear to be two distinct questions that require an answer. The first is, Do these processes of cooking produce substances which, when tested by the usual method of applying them to the skin, give rise to skin cancer, or, as Widmark claims, mammary cancer? The second question is, Do these substances when ingested produce gastric cancer? If the answer to the second question is "No" the answer to the first would be mainly of academic interest. In order to exclude from the feeding experiments the possible fallacy of producing digestive disturbances by an excess of fat in the diet, it would perhaps be well to give the experimental animals the heated fats in the form in which they are usually consumed in actual foodstuffs, such as meat or fish which has been roasted, grilled or fried.

1. *Bol. Inst. Med. exp. Cáncer*, 1938, no. 48, p. 407.

THE NATURE OF CREATIVE ACTIVITY

HITHERTO the study of creative activity has been the preserve of the philosopher and the art critic. The few psychologists, like Vernon Green and Bullough, who have experimented in psychological æsthetics, have not been in a position to use clinical material to substantiate their theories. In fact, it is doubtful whether they would have thought it possible that either psychological medicine or neurology could have helped very much. Psychiatrists have for a long time been interested in the paintings and modellings of psychotics, but the art critic has spurned their intrusions. Shaw rapped Max Nordau over the knuckles in his "Sanity of Art," and Roger Fry, more gently perhaps, replied to Freud in "What the Artist wants of Psycho-analysis." Nevertheless, psycho-analysis has illuminated the deeper issues involved in the artistic creative impulse, explaining the obscurities of artistic content, the choice of material, and the wish-fulfilments of the artist. Not enough, however, has been done to explain the processes in painting and sculpture which are so obviously associated with the conditions of visual experience, and other sensory components have not been adequately explored.

In studying the peculiarities of primitive art, children's drawings and psychotic productions, Dr. Viktor Löwenfeld [1] of Vienna has appreciated the importance of direct visual experience in the normal artistic vision; he has also realised the importance of tactile and kinæsthetic sensibility, which art critics like Berenson have disclosed in the "tactile values" expressed by certain paintings, for example Massacio and the early Botticelli. Spanish critics have tried to correlate El Greco's distortions with his alleged myopic astigmatism. Dr. Löwenfeld has confined his research primarily to the artistic productions of the blind and the partially blind. These people use non-visual imagery because they must, and consequently tactile and kinæsthetic values enter into their creative activities. The haptic type is above all concerned with projecting his inner experience into the picture. Such experience adds a new dimension to the work. In fact Dr. Löwenfeld's researches go a long way to explain many characteristics of primitive art, modern expressionism and so-called distortions. His thesis is a solid contribution to psychology and is calculated to add much to artistic criticism and to a future science of æsthetics.

1. The Nature of Creative Activity. London: Kegan Paul, Trench, Trubner and Co. 1939. Pp. 272. 21*s*.

NITROUS FUMES

MEDICAL students will recall the acrid, not altogether unpleasant, fumes when they dissolved copper or silver in strong nitric acid. In lesser degree the same smell is sometimes apparent in the street on the leeward side of a brazier used by workmen. Nitrous fumes are in fact generated whenever air is heated strongly either by flame, glowing fuel, or hot surfaces of any kind. What is not very generally known is that nitric oxide may be poisonous in any concentration above 1 in 100,000; a dilution of 1 in 10,000, although it seems mildly irritant only to throat and chest, is dangerous to life if inhaled for a few minutes. In a case investigated by Dr. R. L. Guthrie at Poplar in 1934 death was shown to have been caused by nitrous fumes given off from an acetylene superwarmer used in the *Dunbar Castle* when lying in the West India Dock. An inspector of factories then stated in evidence that 102 parts per million of nitric oxide were given off when the appliance used by the dead man was tested in the ship. Medical evidence proved that death was due to asphyxia caused by the fumes. A. Holste records [2] several cases of nitrous-fume poisoning of firemen, one of whom developed œdema of the lungs which proved fatal, while an increase in hæmoglobin and red blood-cells was common to all. Recently R. J. Wright-Smith described [3] a case in which death from intense pulmonary œdema and acute bronchiolitis followed a job of welding for eight hours in a closed tank which had contained sea water. In this case phosgene poisoning was not excluded; they have in common an interval of well-being which may lead the victim to carry on long after he should have reported sick.

The detection of nitrous fumes is important in view of the probability that they may be evolved in dangerous amounts during many industrial operations carried out with the aid of heat. Leaflet No. 5 of the valuable series issued by the Department of Scientific and Industrial Research (H.M. Stationery Office. 3*d*.) describes a trustworthy method of detection, based on the diazo-reaction of P. Griess which is

2. *Zbl. GewHyg.* 1936, **23**, 183.
3. *J. industr. Hyg.* 1939, **21**, 24.

specific. Any primary amine of the aromatic series will react with nitrous acid to form a diazo compound, and this in the presence of another base will yield a more or less coloured azo compound. One of the best combinations of bases for this reaction is sulphanilic acid (which functions as a base) and α-naphthylamine, suggested by Ilosvay, which yields a strong pink to crimson colour. The reaction was at one time held to be too sensitive, but the Griess-Ilosvay reagent is now recognised as the most satisfactory for the unfailing detection of nitrous acid in air or water. The syringe described in previous leaflets is used for bubbling known volumes of air through the reagent and the number of strokes of the piston required to produce a standard tint is used as an inverse measure of the concentration of nitrous acid in the air. The test is simple and should be used whenever there is reason to suspect the presence of nitrous acid in concentrations higher than those normally found in air.

First-aid should be rendered by removing the affected person from the contaminated air and keeping him warm and at rest in the prone position. He should be given tea or coffee (not alcohol) and only removed to his home or hospital under medical supervision in an ambulance. Inhalation of oxygen may be necessary to make up for the hæmoglobin which has been converted into methæmoglobin.

QUESTIONS ABOUT HEALTH

THE private practitioner who is inclined, in his more antibureaucratic moments, to wonder how public-health officers fill in their time, may derive a certain savage satisfaction from reading a paper by Robert Oleson,[1] assistant surgeon-general of the United States public-health service. It seems that badgering the P.H.S. with questions about health is a recognised pastime among all classes of American citizens. Oleson's study of 10,000 of these inquiries tends to discredit the view that the female of the species is more curious than the male, for about half the communications come from either sex. New York, with 1373 questions, is easily the most insatiable of the states, with Pennsylvania (806) and District of Columbia (532) second and third. Question-time reaches its peak in March and again in October; but, as might be expected, there is a slump during the summer when illness is largely forgotten in holiday distractions. The subjects of inquiry cover an almost unlimited range; from the value of chicken gizzard in the treatment of cataract to the age of the youngest human mother; from the medical use of garlic (20 questions on this) to the name of a solution that will toughen the skin of the hands and so make them less susceptible to cold; from the advantages of mechanical dish-washing to the constitution of fluids suitable for embalming. Nearly 800 questions were concerned with the efficacy of drugs, nostrums, cosmetics and dentifrices. So far, so good; but included also in this group were inquiries about remedies prescribed by doctors in attendance on the inquirer, his friends or relations, and such lack of faith is to be deplored. Though most are content to seek information, others are anxious to give it, or rather to sell it. Inventors of panaceas are willing to part with their secrets for paltry sums ranging from a hundred thousand to a million dollars. One correspondent has a scheme for flood-lighting cities with ultraviolet, infrared and cathode rays, thus rendering them germ-free; another would treat toothache, earache, indigestion, rheumatism and (of course) high blood-pressure, to say nothing of "light cases of paralysis," with ten drops on sugar thrice daily of a mixture of gasoline (one gallon!) and pepper (3 drachms), adding, with charming naïveté, that it is "good for almost any disease." Infantile paralysis evokes a great deal of amateur attention; one of the more exciting theories of causation put forward is that it is due to over-abundance of sexual energy, and the removal of the sex glands is recommended as a prophylactic, and therefore presumably routine, measure. Massage with polecat oil, though less drastic, is little more attractive as an alternative.

Oleson rightly girds at the lazy student or professional writer who pesters the P.H.S. for data readily obtainable by library research. He points out that whereas the P.H.S. has no wish to shirk its legitimate duty in providing information, enlightenment could often as easily, and more rapidly, be obtained nearer home. Thus local libraries, the family doctor, or the state department of health, in that order, should first be approached.

1. Oleson, R., *Publ. Hlth Rep. Wash.* May 12, 1939, p. 765.

A NEW TRANSFUSION APPARATUS

THE collection and administration of blood for transfusion has become so topical a subject that any modification of technique adopted in other countries merits our critical examination. Prof. Hustin and Dr. Dumont[1] claim that a modification they have introduced has reduced the accidents of transfusion from 12 to 3 per cent. in 93 transfusions by lessening the chances of clot-formation and of damage to the blood-platelets. The more effectively clot-formation is eliminated from the apparatus, they say, the less likely is a reaction. In their view the clot does not cause a reaction by its embolic action so much as by the liberation of toxic substances, and this they support by animal experiment. Certainly any surgeon whose duty it is to bleed a number of donors will agree with them that the commonest site of clotting is in the actual lumen of the needle. They contend that forceful mixing of the blood and anticoagulant, as with a glass stirring-rod, damages the cellular elements of the blood, notably the platelets. If a suspension of platelets in citrate solution is injected into cats no reaction results, but if the same suspension is first vigorously agitated in a vessel containing beads violent vasomotor reactions may be produced, presumably because the damaged platelets give rise to some toxin. They therefore divide transfusion reactions into two types: first, those due to incompatibility of the blood, where the clinical picture is one of cyanosis, palpitation, flushes, and pain in the loin; secondly, those due to liberation of toxic substances by blood-clot and damaged platelets, the clinical picture being one of rigors, fever, urticarial rashes and œdema. In the latter group there is of course no evidence of the excretion of hæmoglobin and its derivates in the urine. The apparatus employed closely resembles that described by Riddell.[2] Suction is provided by an eccentric cam that compresses a rubber tube, after the principle of Henry and Jouvelet.[3] A second rubber tube, connected to a glass tube which dips into the citrate solution, is led direct to the needle, so that it is possible by reversing the direction of the pump to drive the citrate back from the needle into the vein of the donor, thus washing the lumen of the needle. The

1. Hustin, A., and Dumont, A., *Surg. Gynec. Obstet.* May, 1939, p. 940.
2. Riddell, V., *Brit. med. J.* June 3, 1939, p. 1125.
3. See *Lancet*, 1935, **2**, 1242.

elimination of clots, however small, during the collection of blood is clearly important, as is the necessity for mixing the blood and anticoagulant gently, but this apparatus seems unnecessarily elaborate for the purpose, and is not likely to find favour for the withdrawal of large quantities of blood by not particularly skilled personnel. The principle of suction within a closed circuit is, however, a definite step in the right direction, for it eliminates all sources of extrinsic infection and precludes any diminution in the rate of flow due to clotting in the needle or collecting tube. Such suction can be as efficiently and more cheaply provided by any theatre suction pump or by a reverse Dunlop tyre pump after the method of Marriott.

VIRUS OF JAPANESE ENCEPHALITIS IN VITRO

FOR the time being, at any rate, cultural investigations of the virus of encephalitis of the "Economo" or "European" type have come to a standstill, through lack of new material; but it is otherwise with the work on the virus of the so-called Japanese encephalitis. Strains were isolated from cases during the summer epidemic of 1935, by intracerebral inoculation of mice and monkeys, and the virus has since been studied by a large number of workers in Japan, who have reported on its transmission and biological properties. Recently Kawakita,[1] working at Tokyo Imperial University, has recorded the results of its cultivation in vitro. The method he adopted was essentially that recommended by Maitland and Maitland [2] for the propagation of vaccinia virus in vitro. In his experiments the allantoic fluid of a developing hen's egg was generally used, and he claims that this particular medium has not been previously employed for the propagation of virus in tissue culture. Four strains of the virus were successfully grown and actual multiplication was clearly demonstrated. The experiments satisfy Kawakita that cultivation in this way is as sensitive as direct intracerebral inoculation of mice for the detection of minimal quantities of this virus.

THE CONGRESS OF GENETICS

THE seventh International Congress of Genetics is to be held in Edinburgh from Aug. 23 to 30. The outstanding consequence of the 1927 congress in Berlin was the impetus given to work on the induction of mutation by means of X rays, while the congress at Ithaca in 1932 is said to have achieved "the final amalgamation of cytology and genetics and the emergence of physiological genetics." The theme suggested for Edinburgh is the harnessing of genetics to agriculture, medicine and sociology, and prominence will be given to the breeding not only of animals but also of plants—the vast importance of which is brought out by Prof. Ruggles Gates, F.R.S., in the lecture we publish on p. 1472. The seven sections of the congress are devoted severally to gene and chromosome theory; cytology; physiological genetics; animal breeding; plant breeding; human genetics; and genetics in relation to evolution and systematics. There will also however be subsections on statistical genetics and on the genetical aspects of growth (both normal and abnormal), and members interested in special topics, such as the breeding of poultry, foxes, rubber, wheat or cotton, will form groups for round-table discussion. The general secretary is Prof. F. A. E. Crew, M.D., F.R.S., director of the Institute of Animal Genetics, West Mains Road, Edinburgh, 9. The provisional programme includes expeditions before, during and after the congress, with an instructive and attractive journey from London to Edinburgh by motor-coach.

1. Kawakita, Y., *Jap. J. exp. Med.* April 20, 1939, p. 211.
2. Maitland, H. B., and Maitland, M. C., *Lancet*, 1928, 2, 596.

SALE OF PATENT MEDICINES

CLAUSE 7 of the Finance Bill, under which Sir John Simon seeks to repeal the medicine stamp-duties as from Sept. 2, has become a centre of political interest. It is reassuring to learn that no less than 197 supporters of the Government have put their names to an amendment which proposes to postpone this repeal until 1944. Removal of the last vestiges of official control of the traffic in proprietary medicines would, it is feared, encourage a return to quackery in its most blatant forms, and there would be little remaining incentive to disclosure of their composition. The supporters of the amendment hope that during an interval of five years a better system of control will be devised and the proprietors of packed medicines will see the wisdom of putting their house in order.

THE LISTER INSTITUTE

ON Friday last Prof. William Bulloch presented the annual report of the governing body to the general meeting of the institute. The report consists chiefly of a summary of investigations which cover a remarkably wide field, and it may be recalled that the council of the institute represents not only its members but the Royal Society, the Royal Irish Academy, the Royal Colleges of Physicians, of Surgeons, and of Veterinary Surgeons, the British Medical Association, and the universities of Oxford, Cambridge, London, Manchester, Edinburgh and Dublin—not forgetting the worshipful (and generous) Company of Grocers. Last year it was decided to increase the membership of the council from 30 to 40, and as a beginning Prof. Major Greenwood, Prof. C. R. Harington and Dr. Paul Fildes were appointed as additional representatives of the members. Much of the research which Sir John Ledingham directs is done in coöperation with the Medical Research Council; a section of it with the British Empire Cancer Campaign. Only very close reading of the report can bring out properly the many directions in which the growing points of knowledge are advancing. A glance at the published accounts reveals the remarkable fact that nearly £35,000 came in from the sale of serums and vaccines and a further £2600 from fees for analysis. About another £20,000 derives from interest and dividends, and although much of the work is honorary or financed by grants a sum of almost £29,000 is allocated to salaries and wages of staff. It must be gratifying to the governors that there was this year a balance of £7700 to transfer to capital account.

MRS. C. B. S. ELGOOD, O.B.E., M.B., late senior lady medical officer to the Egyptian Ministry of Education, was created a commander of the Order of the British Empire in the Birthday honours list.

". . . In the State Hospital (New York) for mental cases, the authorities purposely do not have a ward service, as they think going to a central library is an additional interest for the patients, but books are brought to those who are too ill to move."—*Book Trolley*, June, 1939, p. 164.

SPECIAL ARTICLES

"CLOSED" TREATMENT OF WAR FRACTURES

By Josep Trueta, M.D. Barcelona

LATE CHIEF SURGEON TO THE HOSPITAL DE LA SANTA CRUZ Y DE SAN PABLO, BARCELONA

Every great war has led to an advance in surgery; this was especially evident in the Russo-Japanese and Balkan wars and the war of 1914–18. In the treatment of wounds excision and immediate suture has given way to the application of antiseptics, to *débridement* and resection without suture, and to the Carrel-Dakin treatment by irrigation. But the last twenty years have shown that even the Carrel-Dakin method, although superior to many of its predecessors, is often incapable of stopping a virulent infection.

SPANISH WAR EXPERIENCE

At the beginning of the war in Spain most of the surgical methods used were those generally in vogue on the Continent, being influenced especially by the French school. In all the surgical centres except mine the use of antiseptics for infected wounds and the frequent examination of clean wounds meant that compound fractures were treated by continuous extension or immobilisation in splints—always with the idea of keeping the wounds in full view. In some surgical centres, where Böhler's methods were rigidly followed, the surgeons went so far as to immobilise the fractured limb with plaster but immediately cut a window to expose the site of fracture. Despite the use of these different methods, all forms of wound infection were seen, ranging from localised osteomyelitis to gas-gangrene. Even the resection of injured tissue, the removal of all foreign bodies, the systematic administration of anti-gas-gangrene serum, and the application of various antiseptics to the wound did not remove this danger.

In Catalonia the best results were achieved by those surgeons who set the wounded limbs in plaster, in which they cut a window, taking care not to handle the wound so long as it progressed favourably. Later another system (to be described below) was evolved and when all its possibilities became known it was adopted generally.

ORIGIN OF CLOSED TREATMENT

In 1929 I began to treat wounds in civil practice, especially those due to industrial accidents, by a method combining the technique of L. P. Friedrich, in Germany, with that recommended for osteomyelitis by Winnett Orr. My procedure consists in *débridement* and excision of all bruised tissue; the wound is then packed and covered with dry sterile gauze, and finally a plaster case with no window in it is applied to the limb. At first I treated only unimportant wounds in this way; but encouraged by the results I used the method in severe compound fractures of the tibiæ and fibula with a very satisfactory outcome. After treating 100 cases thus I communicated my results to the Surgical Society of Barcelona but did not get a good reception. Later I published further cases in the Catalan medical press. In the seven years before the beginning of the Spanish war, I could not persuade more than a few surgeons to try my method, although independently Dr. Lelio Zeno, of Argentina, who was well known in Barcelona, had published an account of the satisfactory treatment of burns by immobilisation in plaster.

At the outbreak of war, since I was chief surgeon of the largest hospital in the city, I was able to apply this treatment on a large scale, to observe its complications and study its advantages and disadvantages. The treatment was administered to the wounded in the streets or at the front, for at first there was no organised army medical service. Later the repeated bombardments of Barcelona enabled me to collect the statistics of patients treated in the way I recommended. I published two papers in Catalan journals (Trueta Raspall 1936, 1937) and collected my experience into a textbook (Trueta Raspall 1938). My repeated insistence on the good results obtained and the large numbers of patients treated by this method led later to its general adoption in the army medical service under the direction of Prof. J. d'Harcourt, who was chief surgical consultant to the republican army.

SELECTION OF CASES

The aim is to preserve the fractured limb as far as possible, unless it endangers the patient's life or is unlikely to be of any use. In deciding whether or not to remove a fractured limb, the criterion is the state of the circulation in it. The temperature of the hand or the foot and the colour of the skin are a good indication whether to operate or not, and sphygmomanometer readings are helpful. Continual practice enables one to distinguish accurately the cases that need immediate amputation from those that can be treated conservatively. It is more difficult, however, to distinguish between the limbs that will be useful to the patient and those that will later require amputation. In this respect the criterion for the arm differs from that for the leg. Broadly speaking, the important point for the arm is the preservation of movement, whereas for the leg it is the maintenance of a strong support. Conservative treatment is far more often desirable for the upper limb than for the lower, because even deformed stumps of fingers, hands contracted by scars, and fingers rendered stiff by adhesions are more useful than the best artificial hand. Re-education clinics and spontaneous adaptation by the patients produce wholly unexpected good results as regards utility of the limb. Further, conservative treatment is essential to prevent so far as possible the development of a feeling of inferiority and disability, with their social consequences, in patients invalided with war wounds. The smaller danger to life caused by injury of the upper limb allows amputation to be rejected in many cases that at first sight seem to need it.

In the leg there need be less hesitation. In the first place it is possible to provide a useful artificial limb. Secondly, deformed feet often remain painful, and there may be harmful ankylosis, which may need later amputation. Thirdly, injuries of the leg are generally more dangerous than those of the arm. The decision for or against removal of the limb is hardest with a badly broken femur, and it is such fractures that have proved clearly the advantage of my method. In some cases of extensive wounds from shrapnel, which left enough blood-supply to allow of conservative treatment, the operation was begun with the idea of not amputating, but the resection of bruised tissue—an imperative part of the conservative treatment—left the bone so bare

that we were finally obliged to do so. This change of plan in the course of the operation was undoubtedly bad for the patient, but it shows how far conservatism was pushed in Catalonia in the attempt to save every possible limb. With experience this error can be avoided.

The obvious objection to this conservative treatment is that it may increase the risk to life—briefly, that gas-gangrene and infective osteomyelitis and suppurative arthritis would be more liable to complicate fractures treated in this way. Our figures show that this is not so. Comparison of the cases treated by this conservative method with those treated by the classical method at the beginning of the war shows that the incidence of gas-gangrene greatly diminished, despite the fact that at first anti-gas-gangrene serum was used prophylactically, whereas later in most of the Catalan surgical service it was used only therapeutically. Gas-gangrene was rare among the casualties treated by my method.

TECHNIQUE

When a casualty had been carried to the casualty-collecting post at the front, or (after an air-raid) to a hospital in the town, he was classified by surgical experts who decided the immediate treatment. Until fairly late in the war the treatment of fractured limbs was considered less urgent than the treatment of abdominal, thoracic, and cranial wounds; but this decision was changed when it was found that the fracture cases were the ones on which the surgeon could operate most successfully, whereas very few patients with abdominal wounds survived and cranial wounds did not require immediate operation.

After classification the patient was put to bed or taken immediately to the operating-theatre, where the surgeon examined his wounds and gave him a routine injection of 3000 units of tetanus antitoxin, preceded if necessary by blood-transfusion. General anæsthesia was induced with ether given with Ombredanne's apparatus, spinal anæsthesia being reserved for patients with not very serious fractures of the leg, in whom the blood-pressure was only little lowered. As soon as the patient was anæsthetised, the wounds were cleaned with soap and water and nail brush. After the skin had been shaved it was swabbed lightly with tincture of iodine, care being taken that none touched the wound. The field of operation was isolated with towels, and the bruised tissues were excised. As much skin was saved as possible; only the edges were resected, for loss of much skin leaves the muscles, tendons, and aponeuroses very bare and hinders healing. Skin was removed only if its vitality was in danger—e.g., when it had been much torn or its blood-supply had been destroyed—but treatment of the muscles and aponeuroses was much more radical. We did not preserve any bruised muscle that did not react well when pinched with forceps or which had an abnormal colour or no blood-supply.

To be conservative with the limb was to be very radical with the tissues, especially the muscles. A different criterion, however, was adopted for the bones. Like the skin, the bony fragments were preserved wherever possible—even including those deprived of periosteum if they were big. Much loss of bone is likely to lead to pseudarthrosis or to troublesome delay in uniting.

After the large fragments of bone had been carefully replaced, it was necessary to drain the cavities left by extirpation of the soft tissues. This drainage is of great importance, for a badly drained cavity allows of the collection of fluid, at first consisting of blood but rapidly changing to pus. The best drain proved to be sterile absorbent gauze introduced between the tissues in the direction of the muscle-fibres. Sometimes we inserted a rubber tube in the lowest part of the cavity. In very few patients was the skin sutured.

The fracture was reduced by placing the limb in a convenient position according to the bone fractured and the level of the lesion—e.g., arm in abduction and anteflexion for fracture of the middle third of the humerus, and leg in semiflexion for fracture of the lower third of the femur. If necessary an extension table like that of Putti was used: a plaster cast was placed round the fracture, including the adjacent upper and lower joints. This cast was left in position so long as there was no excessively bad smell and the plaster did not become wet and soft. In either of these events it was removed and a second plaster was substituted. As a rule this stayed on till the fracture united, but in some cases the plaster had to be renewed three, four, or more times, because it could not be kept on more than a fortnight. When a plaster was renewed, the opportunity was taken to remove the gauze pack, which sometimes had become firmly adherent to the granulations of the wound.

For a few days after operation the patient nearly always ran a temperature, which showed that a local fight was going on against infection at the site of the fracture; but in only 0·75 per cent. of cases was it necessary to remove a plaster because of true clinical infection, and on these occasions it was found either that a cavity was badly drained or that there was a cellulitis which needed further *débridement* followed by renewal of the plaster.

ADVANTAGES AND DRAWBACKS

The immediate benefits of the plaster treatment include absence of pain, rapid disappearance of shock, elimination of sleepless nights, and return of appetite; and the absolute rest of the fractured limb promotes good normal union. The failures were all attributable to faulty technique: the surgeon had either tried to save a limb with insufficient blood-supply or had not excised enough bruised tissues.

Among my cases was one of wet gangrene in the leg of a woman seriously wounded by a bomb; I tried to save the limb although it had a deficient blood-supply, and a few days later there was ischæmia of the toes with fever. On removing the plaster I found a conspicuous line of demarcation above the wound in the middle third of the leg, but gas-gangrene did not develop.

I saw only one case of gas-gangrene in 1073 patients treated by me or under my direction, and that was attributable to faulty technique.

A man of 58 was wounded in both legs by a bomb. Because the hospital was inundated with casualties the operation was performed too hurriedly. I paid most attention to the right leg, which was much more extensively injured than the left. After conscientiously excising the mortified tissues of the right leg and plastering it half-way up the thigh, I rapidly examined the left leg, which, apart from a fracture of both bones, had only a small wound of the soft tissues. I made only a small incision, excised some bruised muscle near the site of fracture, left the skin unsutured, and plastered the limb. A couple of days later gas-gangrene developed in the left leg and was treated with anti-gas-gangrene serum and extensive *débridement*, which exposed some mortified tissue at such a distance from the site of fracture that it had not been discovered at operation. The patient died.

A common complication was cellulitis. This developed in some cases that appeared to have been correctly treated, and this makes it more difficult to foresee. But its treatment is usually easy. If in a case of fracture treated by plastering there is a rise of temperature, with loss of appetite, pain at the site of fracture, and local adenitis, the plaster must be removed, and nearly always a cellulitis will be found, or more rarely a primary lymphangitis. The usual treatment for cellulitis is undertaken—i.e., ample *débridement*, exposure of the whole of the affected area, and plugging with sterile absorbent gauze. The plaster is renewed either immediately or at most two or three days later. I had to remove the plaster from 8 patients for this reason; I replaced them, and in all but 1 the fracture united satisfactorily. The exception later developed a pseudarthrosis.

The commonest sequel (81 cases), although unimportant as regards mortality, was very troublesome as regards the union of the fracture. This was a local osteitis, which regularly followed extensive loss of periosteum or local infection of bony fragments. In these cases the total encasement in plaster is as beneficial as Orr's treatment in chronic osteomyelitis. The illness was long and unpleasant but devoid of danger; sometimes secondary sequestrectomy was needed or partial resection followed by an immobilising plaster, as in Orr's treatment.

Two patients with fractures involving femur and pelvis died: one eighteen hours later from shock and the other seven days later from septicæmia. Two patients died from complications which, although due to the wound, could not be attributed to the treatment—one from pulmonary embolism and the other from bronchopneumonia. Two patients had hæmorrhage at the site of fracture necessitating temporary removal of the plaster for purposes of hæmostasis; both made an uninterrupted recovery. I saw five cases of pseudarthrosis: one in the middle third of the humerus and four in the tibia. Three of those in the tibia and the one in the humerus did not unite because the amount of bone lost made contact between the fragments impossible. Two of these cases were cured by oblique osteotomy of the fibula, which allowed the fragments of the tibia to be approximated. Another of them was treated by grafting; this patient disappeared before being cured. The remaining two patients were sent to another hospital and I know no more about them.

The only drawback of this treatment is the bad smell emanating from the plaster after a few days, especially where the wound is already infected. This smell can be reduced by proper ventilation or, better still, by keeping the patients on open balconies; and the oldest plasters, which have collected the most discharge, can be changed.

The advantages are incontestable and include, besides those already enumerated, the facility of evacuation. With a well-organised medical service and with surgical posts close to the front line, fractures can be operated on immediately and plasters forthwith applied, enabling the wounded to be transported at once. No apparatus so far invented with the object of facilitating transport—not even the Thomas splint—can compare with the plaster cast, which can be adapted for fracture at any site. Continuous extension, especially for oblique fractures of the femur, cannot be carried out near the firing-line, which means that this form of treatment is begun too late; the patient has to be transported a long way so as not to occupy a bed required for those wounded later. Add to this the fact that the results obtained by our treatment are in no way inferior to those obtained by continuous extension, and it will be seen that there is no need for Balkan beams and the other complicated apparatus of suspension and extension.

RESULTS

The exact number of patients treated by the end of the war in Catalonia is unknown to me, because I do not possess the army statistics, but I have been informed in a letter by Prof. d'Harcourt that more than 15,000 casualties were treated by this method with satisfactory results. During the long and severe battle of the Ebro, for example, the republican wounded had an amputation-rate of only 0·73 per cent., which is satisfactorily low considering the high proportion of injuries to limbs caused by aircraft in modern warfare. The more direct evidence I will adduce comes from my own experience in the centres under my control: the Hospital de la Santa Cruz y de San Pablo General de Cataluña, the Hospital de Sangre de Sabadell, the Clínica de Accidentes de la Caja de Previsión y Socorro, and my private clinic. This experience is based on wounds of all kinds, from those due to long-distance missiles, which usually produce fractures without much tissue damage, to fractures accompanied by much destruction due to aerial bombardment.

The time that elapsed between the infliction of the wound and surgical treatment was very variable: from 18 minutes in a case of fracture caused by a bomb in Barcelona to 49 hours in the case of a wounded man evacuated from the Aragon front without having received any attention. Many of the patients reached me with their wounds already infected and too late for aseptic surgery. I also treated during the war many wounds due to industrial and traffic accidents; so my experience includes almost every kind of injury, sustained in the most diverse circumstances.

I have treated 1073 compound fractures of all kinds by total encasement in plaster. Many of the patients had severe infected wounds, and some were in a very bad state. There were 6 deaths, but only 2 were attributable to the method used—i.e., those due to gangrene. One was caused by shock, and another by infection; in those 2 cases my method could not cure the desperate condition. The deaths due to embolism and to bronchopneumonia are not

RESULTS OF TREATMENT OF FRACTURES BY TOTAL ENCASEMENT IN PLASTER

Type of fracture	Cases	Good result	Bad result	Deaths
Scapulohumeral	55	55	0	0
Shaft of humerus	142	140	1	1
Elbow-joint	64	60	4	0
Forearm	121	110	11	0
Wrist and hand	106	93	13	0
Intracapsular of femur ..	21	17	2	2
Extracapsular of femur ..	101	88	12	1
Knee-joint	43	40	3	0
Shafts of tibia and fibula ..	225	198	25	2
Tibiotarsal and calcaneo-astragalar	67	60	7	0
Anterior part of foot	128	115	13	0
Total	1073	976	91	6

attributable to the method. The accompanying table summarises the results. Among the bad results are included certain cases that may possibly have been cured, as, for example, pseudarthrosis and chronic osteomyelitis; some of the patients left hospital and the results are not ascertainable. There are also 4 delayed amputations included in this group: in one case of severe suppurative arthritis of the knee the life of the patient, who came for treatment when already very ill, was saved by amputation; in 3 other cases, which had been treated conservatively, a deformity of the foot had ensued which necessitated amputation. The group of bad results further includes 7 patients who developed some deformity which greatly reduced the utility of the limb. The percentages of final results are as follows:—

Good results	90·9
Bad results	8·6
Deaths	0·5

Besides the above-mentioned cases 76 urgent amputations were performed on patients brought in with destroyed limbs, which could not possibly be saved. These figures exclude 119 patients who were admitted with multiple fractures and serious wounds in the abdomen, the thorax, or the head, from which they died. In some of these the fractures were plastered, merely to immobilise the limbs. In others this was impossible.

SUMMARY

In Catalonia, during the Spanish war, the best results in the treatment of compound fractures were obtained by total encasement in plaster without windows.

At operation extensive *débridement* was carried out, all bruised tissues, especially muscles and cellular tissue, being excised; but care was taken to preserve as much skin as possible and all large bony fragments. The cavities left by extirpation of tissues were drained with sterile absorbent gauze or sometimes a rubber tube. The skin was seldom sutured.

The joints above and below the fracture were immobilised in the plaster, which was not removed unless it became wet and soft, or there was an intolerable stench, or the patient's condition showed that some complication had developed.

The fear that such treatment of fractures must lead to an increase in sepsis, especially gas-gangrene, was found to be groundless, and the method, by facilitating evacuation and dispensing with apparatus, had great advantages under war conditions.

In 1073 cases of fracture treated in this way there were 6 deaths, only 2 of which were due to gangrene. The results were considered good in 91 per cent. of cases.

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"... The cat is a dicœstrual animal, that is, one in which œstrus appears twice a year. The first cycle occurs in the spring, the second one in early autumn. In this respect, together with the other factors (change of habitation, for example), climate has a great influence. It may happen that these two cycles overlap during the summer months, whereas winter is mostly a period of complete rest from sexual activity. ... In the female cat, ovulation occurs about forty to fifty-four hours after copulation. ... As in the rabbit or ferret, a female cat served by a vasectomized male shows the phenomenon of pseudo-pregnancy, which lasts about thirty-six days."—*Nature, Lond.* May 27, 1939, p. 900.

DENMARK

(FROM AN OCCASIONAL CORRESPONDENT)

THE INDUCTION OF ABORTION

LIKE many another country, Denmark has been involved since the war in a passionate controversy over the indications for inducing abortion. The upshot of lay and medical discussions on the subject has been a new pregnancy law (law No. 163 of May 18, 1937) whose putting into force has been deferred repeatedly, on the last occasion to Oct. 1, 1939. Doctors may then well find their forensic ingenuity tested to the utmost by the first paragraph, according to which pregnancy may be brought to an end when it endangers a woman's life or health. What latitude of interpretation do not the last two words—"or health"—confer?

Conscious of the financial temptations that may assail a doctor in the reading of this paragraph, the legislators have insisted on abortions being induced only in public hospitals and without a fee. At a meeting of the Danish Surgical Society not long ago this special precaution was debated. Opening the discussion, a hospital surgeon, Dr. Tönnesen, expressed his approval of the elimination of a prospective fee from the calculations of a doctor called on to decide for or against abortion. He referred to an impending appeal by doctors in charge of private hospitals to the authorities for special authorisation to induce abortions when necessary. Without mincing matters, he said: "While the large surgical and gynæcological hospitals for a long time showed a strict reticence, several doctors without special knowledge or training in gynæcology have taken the matter into their own hands. Even though these doctors have insisted on the idealism of their motives, the result at any rate has been a very confused mixture of idealism and business." Another speaker, however, challenged the justice of the financial safeguard, saying that it was quite wrong: "As doctors, it is our livelihood to receive payment for our work ... and it is our right—indeed our duty—to accept fees for the induction of abortion undertaken on legal indications."

THE CAMPAIGN AGAINST BRUCELLOSIS

Infectious abortion in cattle and all its consequences are, according to a recent calculation, more costly to the farmer than tuberculosis, rife though this is in Danish herds. But legislative measures are more severe against the latter, partly because we have been tuberculosis-conscious for a comparatively long time; the march of public-health measures is as slow and stately as that of a London policeman. At present the butcher who sells tuberculous meat lays himself open to severe penalties, whereas he may sell milk teeming with *Brucella abortus* without anyone saying him nay. For that matter, he may also sell quite a concentrated suspension of tubercle bacilli in milk with impunity.

Dr. Ejnar Nyrop has lately asked his colleagues if infectious abortion in cattle cannot be stamped out quickly and at a comparatively low cost. He answers his own question in the affirmative by pointing to the successes achieved in this field in Norway, and to the encouraging results already obtained in different parts of Denmark. In 1936 the farmers and veterinary surgeons of the island of Bornholm set themselves the task of eradicating infectious abortion in cattle; and the state came to their aid to the tune of Kr.100,000 yearly. By June, 1938, 3705 of the 3811

herds with a total of 37,897 cattle over one year old had been examined, and 2478 had been found healthy, whereas 1227 contained one or more infected cattle. With approximately a third of the herds and 14 per cent. of all the cattle of Bornholm infected, the prospect of getting rid of the disease quickly and at small cost seems to be slender—the more so as throughout Denmark as a whole 2–3 per cent. of all the herds show new infections every year. But Dr. Nyrop pins his faith in the future on recent experiences in Norway where in the course of only four or five years the picture has been completely changed. The Norwegian campaign was started in 1935, with the state and the farmers sharing the expenses entailed by the slaughter of infected cattle. Among the 200,000 Norwegian herds were 3014 found to be infected between 1935 and 1938. By Feb. 28, 1939, 2860 of these herds had been rid of the infection—i.e., 94·9 per cent.—a prodigious achievement in record time. In the second quarter of 1936 there were 127 newly infected herds notified, whereas in the second quarter of 1938 this figure was reduced to 18.

IRELAND

(FROM OUR OWN CORRESPONDENT)

THE ARMY MEDICAL SERVICE

In his presidential address to the Irish Medical Union, delivered on June 8, Dr. P. MacCarvill stated the reasons why the union had found it necessary to advise medical men to refrain from joining the Irish Army Medical Service until the conditions of pay and pensions should be improved. On June 15 the public press contained a statement from the Department of Defence purporting to be a reply to statements in an address of the president of the union. The arguments put forward by the department depended largely on comparisons between the pay and pensions of (1) medical officers and non-medical officers in the Irish Army, and (2) medical officers in the Irish Army and in the British and other armies. It concluded with the proposition that "any suggestion that the medical profession is being unfairly or unreasonably dealt with is altogether unwarranted and not founded on fact."

Dr. T. F. O'Higgins, a member of the Dáil and a member of the executive committee of the Medical Union, replied in the morning papers of June 16 to the contentions of the department. He showed that in the comparison that had been made between medical officers in the Irish Army and those in other armies allowances in kind had been considered in the case of the former but not in the case of the latter. Moreover, the department had committed itself to the statement that "the rates of pay of medical officers in the Irish Army were, up to the date of the promulgation of the revised rates for medical officers, generally higher than those paid to medical officers in the English and American armies." Dr. O'Higgins, quoting the figures, shows that this statement is untrue as regards all ranks higher than that of captain. He shows also that the rank of captain in the Irish Army is practically stationary, as under the old rates of pay there were only five officers who held higher rank, and from 1924 to 1939 no promotion higher than the rank of captain had been made. It is astonishing that a government department should find it proper to attempt to mislead the public on points of fact in order to defend a scheme of pay and pensions which is not capable of genuine defence. Dr. O'Higgins points out that under the present scheme a medical officer will on retirement receive as maximum pension approximately one-third of his pay, whereas an officer in other branches of the army will receive approximately two-thirds. He might have added that no medical officer in the army at the time of the promulgation of the recent regulations can by a step of promotion obtain any increase of pay. He will have increased responsibility but not increased remuneration.

INDIAN MEDICAL SERVICE

ANNUAL DINNER

Major-General Melville presided at the annual dinner of the I.M.S., held at the Trocadero on June 14, and proposed the toast of The Service. He had, he said, received a telegram of good wishes from the Director-General. He spoke of the dinner as "rather a self-centred thing," while bidding the guests cordial welcome. During the year since they met last no catastrophe had occurred; recruiting was in fact most excellent, and the last batches were as good as they ever had been. He counted 111 officers present; they illustrated the enormous variety of careers open to members of that service. To the new recruits he offered a word from his own experience. A man, he said, became an administrator when he had one other officer under him. Maladministration makes this officer a discontent; a slight makes him an assassin. He reluctantly bade goodbye to Sir Thomas Carey Evans as dinner secretary. Invited to respond, Sir Thomas remarked he was a good listener and hoped everyone had enjoyed their dinner, the menu of which was Sir Richard Needham's choice. The Chairman's health was proposed by Colonel Proctor, who said that Melville gave his juniors the impression that he regarded them as highly competent, and they had to live up to it.

Guests at the dinner were Sir Frank Brown, C.I.E., Dr. Hugh Clegg, Sir Wilson Jameson, Mr. D. M. Cleary, Dr. Egbert Morland and Prof. James Young. Officers present were as follows:—

Major-Generals: Sir Frank Connor, D.S.O., A. W. M. Harvey, Sir John Megaw, K.C.I.E., C. W. F. Melville, C.B., H. R. Nutt, Sir Leonard Rogers, K.C.S.I., C.I.E., F.R.S., G. Tate, C.I.E.

Colonels: H. Ainsworth, Sir Rickard Christophers, C.I.E., O.B.E., F.R.S., H. M. Cruddas, C.M.G., O.B.E., H. R. Dutton, C.I.E., A. B. Fry, C.B., C.S.I., D.S.O., J. Fuller-Good, C. A. Gill, T. A. Granger, C.M.G., C. R. M. Green, W. H. Leonard, C.B., H. M. Mackenzie, C.I.E., F. P. Mackie, C.S.I., O.B.E., A. J. Macnab, C.B., C.M.G., Sir Richard Needham, C.I.E., D.S.O., A. H. Proctor, D.S.O., C. H. Rheinhold, M.C., H. A. Stranger-Leathes, Ashton Street, F. F. Strother Smith, R. G. Turner, C.M.G., D.S.O., W. L. Watson, O.B.E., C. N. C. Wimberley, C.M.G.

Lieut.-Colonels: W. G. P. Alpin, O.B.E., F. J. Anderson, C.I.E., M.C., R. S. Aspinal, C. H. Barber, D.S.O., F. A. Barker, C.I.E., O.B.E., A. N. Bose, O.B.E., G. T. Burke, C.I.E., H. P. Cook, H. F. Cormac, M.C., D. G. Crawford, J. M. Crawford, O.B.E., J. B. Dalzell-Hunter, O.B.E., I. Davenport-Jones, S. C. Evans, J. K. S. Fleming, C.B.E., B. Gale, E. S. Goss, M.C., P. Fleming Gow, D.S.O., V. B. Green-Armytage, F. Griffith, A. E. Grisewood, W. L. Harnett, C.I.E., S. N. Hayes, H. Hingston, E. A. V. Hodge, C.I.E., J. M. Holmes, E. V. Hugo, C.M.G., M. L. C. Irvine, R. Kennedy, D.S.O., H. H. King, C.I.E., E. W. O'G. Kirwan, C.I.E., A. C. Macrae, C. McIver, G. E. Malcomson, W. A. Mearns, C. Newcombe, C.I.E., D. V. O'Malley, O.B.E., J. B. Lapsley, M.C., J. C. H. Leicester, C.I.E., A. V. Lopes, G. Lynn Rigby,

D.S.O., M. C. Newton-Davis, H. K. Rowntree, M.C., H. Ross, C.I.E., O.B.E., R. B. Sewell Seymour, C.I.E., F.R.S., H. E. Short, H. A. S. Short, J. A. Sinton, V.C., O.B.E., H. B. Steen, R. Steen, W. D. H. Stevenson, C.I.E., H. Stott, C.I.E., C. Thomson, E. Owen Thurston, A. G. Tressider, C.I.E., E. L. Ward, C.B.E.

Majors: J. A. Cruickshank, M.C., H. C. Brown, C.I.E., Sir T. Carey Evans, M.C., V. E. Lee, V. B. Nesfield, C. G. Seymour, M. R. Sinclair, O.B.E.

Captains: Dev Datt, R. L. Raymond, Man Singh.

Lieutenants: G. T. Hayes, D. H. Harrison, P. W. Kent, W. M. McCutcheon, G. S. Michelson, S. G. Nardell.

Appended to the menu was a list of dinner chairmen from 1897 to 1938 compiled with much industry by the retiring hon. secretary.

MEDICINE AND THE LAW

Inquest Verdicts and Civil Liabilities

THE St. Pancras coroner, Mr. W. Bentley Purchase, last week rejected a jury's finding of negligence against a railway company. The inquest concerned the death of an employee who, while acting as fireman, had fallen from the foot-plate of a stationary engine. To its verdict of accidental death the jury added its opinion that the accident would not have occurred but for the company's negligence. The coroner refused to accept this rider. Nobody had suggested any negligence; there was, he thought, no evidence to support such a suggestion. "Any opinion you express," he remarked to the jury, "is no part of your verdict and was not asked for."

This rebuke, perhaps incompletely reported, may seem puzzling inasmuch as juries are, after all, summoned to express opinions. An inquest tends to be a roving inquiry and a coroner occasionally accepts with tolerance a rider with which he happens to concur. But Mr. Bentley Purchase was at any rate acting in accordance with the views of the departmental committee on coroners over which Lord Wright presided. The committee's report, published in 1936, referred to the growth of a practice whereby interested parties made use of inquests in order to elicit facts which had a bearing on civil liabilities but which were not strictly relevant to the issue before the coroner. This practice, in the words of the report, was properly condemned and checked by some coroners. A Home Office witness had told the committee of a case where the coroner had actually given directions to the jury on the question whether the accident occurred "in the course of the workman's employment"—a nice point of workmen's-compensation law which, if a dispute arose between employer and workman, ought to be left to the county-court judge to decide in the light of decisions of the Court of Appeal and House of Lords. The Coroners Act requires the coroner to investigate the question "how, when and where the deceased came by his death." In cases of murder and manslaughter the coroner and his jury are authorised to impute blame to individuals, if the evidence justifies such a course; by implication in all other cases the scope of the inquiry is confined to an ascertainment of the facts. The Wright committee went so far as to recommend that it should be declared by act of Parliament that coroners' courts are not to concern themselves with questions of civil liability. No effort has hitherto been made to give statutory effect to any of the committee's recommendations. Meanwhile each coroner can (and, in the committee's opinion, should) so exercise his discretionary jurisdiction that his court leaves any prospective claim for damages to the tribunal before which it will properly come.

Electronic Reactions and Diphtheria

Too rigidly exclusive a contraction of the coroner's jurisdiction would have prevented the interesting experiment which has been conducted in the course of a protracted inquest at Leigh. A boy died of syncope due to diphtheria. His mother said that, in the absence of her own doctor, she had called in Mr. C. C. Abbott, who is described as a physio-medical practitioner. She and her husband and other members of her family had been patients of Mr. Abbott. Dr. Arnold Renshaw, pathologist, of Manchester, gave evidence that adequate treatment of the boy's disease in the early stages by antitoxin would have saved his life; the throat was one of the worst he had ever seen. Mr. Abbott, who had stated in a letter that death was due to septic throat infection, septicæmia and heart-failure, described at the inquest the treatment he had given. There were signs at one time, he said, of diphtheria; but he had tested a swab from the boy's throat by the electronic method (sometimes spoken of as the "black box") and the reactions did not indicate a definite diphtheritic state. He came to the conclusion that there was no diphtheria. He ordered the child's throat to be painted, but the child refused to allow it. Mr. Abbott said that, when he saw the throat later, he thought there were signs of diphtheria. He did not believe in the antitoxin treatment. He had 30 years' experience and had never failed in any case of this kind before. Explaining the electronic method, he said it was the application of a type of resistance with a series of traps allowing particular wave-length resistances to pass through. The wave-length of diphtheria was 5,100,000 vibrations per second.

Dr. Renshaw, recalled after Mr. Abbott's evidence, said that Mr. Abbott's diagnosis was misleading and the right tests were not made. The witness agreed with Dr. R. S. Davidson, medical superintendent of Astley Sanatorium, that there was only one specific treatment for diphtheria—namely, the use of antitoxin in the early stages. It had been established that this treatment cured the majority of patients suffering from the disease. Dr. Renshaw offered to test Mr. Abbott's electronic box with cultures which he would himself supply. Mr. Abbott accepted the offer, and, after taking time to consider his decision, the coroner approved. A prolonged test was conducted on June 16. Mr. Abbott was supplied with tubes containing the bacteria of five diseases, with one blank tube, each tube being marked with a letter to which the coroner held the key in a sealed envelope. At the resumed inquest on June 20 it was announced that Mr. Abbott had returned a correct diagnosis for 3½ out of 26 tubes. Mr. Abbott complained that he had been interfered with too much during the test, and that the coroner had conducted it in his own way rather than in Mr. Abbott's. The inquest was again adjourned.

"... If I were sending my ewe lamb to school for the first time I should want to be satisfied that the child would be given the essential foundation of self-discipline, and would acquire good manners, cleanliness, and punctuality. I would not bother about academic training—nobody bothered about mine. But I should bother rather a lot about health, not merely because I am a doctor. I should bother about food, and more and more about rest—rest above all things—both for the body and for the mind."—Lord HORDER, speaking at Parents' Day at Bedales School, Petersfield.

GRAINS AND SCRUPLES

Under this heading appear week by week the unfettered thoughts of doctors in various occupations. Each contributor is responsible for the section for a month; his name can be seen later in the half-yearly index

FROM PETER QUINCE

IV

"What action would you take if a ship came into port with a case of bubonic plague on board?" Ninety-nine per cent. of medical practitioners would answer, "Look it up in a book or ring somebody up about it," but that, I fear, would score no marks at all in the Conjoint medicine final where I met the question. It has always infuriated me to think that, had I not ploughed on the other questions, this particular one might have brought me down; in fact, that my inability to answer it may have contributed to my downfall. How does such a question come to be set? Well, I am not absolutely certain, but I rather think that the examiners, after failing to settle the choice of questions by blows, sit down at a long table and take it in turns to set one. The unspeakable Ming-Shu fires off with something depraved about the relations of the ulnar nerve, honest physicians slip in straight questions about their pet diseases, others about treatment and so on until it comes round to Harpo, who has covered his paper with drawings of rats and folded it up into a little ship. This he pokes into the decanter and holds his nose. "A pleasure cruise?" hazards Jimmy Nervo; but Harpo shivers and claps his hands to his groins. Groucho guesses it right and awards himself another cigar amid motor-horn acclamations. Everybody shakes hands and the question is set. (Unless I am mistaken there is a picture of them doing it in this year's Academy.)

* * *

What avails it now that we once knew which was xylem, which phloem and which cambium? Who were Cardo and Stapes? And what happens to tryptophane? To these and to a legion of similar titbits of knowledge we had to achieve insecure adhesion before we could qualify as medical practitioners. Most of them came unstuck as soon as the relevant examination was passed, and we are left wondering what exactly we acquired between leaving school and signing our first death-certificate, and why it took six years.

I suppose that at the outset of our medical training there is no knowing that we may not after all develop into herbalists, entomologists, or even into Demonstrators in Physiology, so our teachers are impelled in all fairness to tempt us with all their different wares, much as one experiments to see what a tortoise will eat. (Incidentally, my tortoise will eat dandelions only if you pluck them and hold them under his nose. I'm sure there is a moral in that.) But by the time we have passed the second M.B. (and perhaps failed the primary F.R.C.S.) some of us have a good idea of what we intend to be, and yet we are all forced to devote our time and energies in a diffuse and digressive curriculum right up to the final examination. Specialists in all the special departments claim the paramount importance of their subjects, spin them out into a three months' course, and see that we dare not escape by contributing a Question to the written papers.

Why did those responsible for the curriculum stop when they did? I wonder how academic bodies like the universities came to overlook the History of Medicine? Given unlimited time, I should have enjoyed learning the views of Karshish, Galen and Trousseau on epilepsy, why it is no longer necessary to gather borage under a full moon, and by what stages the witch's brew of Macbeth's time has evolved into today's elegant polyglandular preparation. A little Comparative Medicine would have broadened our mind even further. Who of us can compare and contrast the treatment of pruritus ani in (*a*) homœopathic medicine, (*b*) osteopathic medicine, (*c*) Christian Science circles and (*d*) nudist colonies?

* * *

That the curriculum urgently needs renovating is obvious. Every year brings some important advance in methods of diagnosis and treatment, but for many reasons medical training must be limited to six years, and the inclusion of fresh subjects must necessitate a careful pruning of dead wood. A gaggle of specialists will never be able to agree as to what can safely be scrapped and what innovations must be admitted: why not therefore invite a hive (or pride) of general practitioners to express their views on what knowledge and experience is necessary for general practice? It would mean that hospitals made it their primary object to turn out first-class general practitioners. Those who wished to specialise in any direction could haunt their chosen department unofficially in their spare time before qualification, and with all their energies afterwards.

I may as well pile Pelion on Ossa and set the ball rolling with a few outrageous suggestions. The *Anatomy and Physiology* course should be condensed into a year; with less dissection into regions which will never concern the practitioner hereafter, and more surface anatomy which is to be his daily battlefield. Surface Anatomy to be taught on bodies fat and thin, in all positions, at rest and in movement by inspection, palpation and X-ray screen demonstrations. *Physiology* to continue as a clinical science and to take its place in medicine as anatomy does in surgery. *Midwifery and Gynæcology* to remain in statu quo. In *Wards and Outpatients* no more long-winded notes to be read aloud. Clerks and dressers to be trained to demonstrate their cases from memory or at most by reference to abbreviated notes on a postcard, which remain his private property: laboratory investigations to be used only for confirmation of diagnosis or to establish a diagnosis when definite differential diagnoses stand. ("Remember, gentlemen, ninety per cent. of your patients won't be able to afford private pathological reports, and the car-fare and the time off work required to visit the local hospital for pathological investigations must be justifiable.") *Surgery:* neck-craning at operations three afternoons a week to be discouraged as a waste of time. Finally (to grind an axe) students should be trained to investigate for pulmonary tuberculosis before the patient has been in their hands four months (which appears to be the *average* time taken to arrive at that diagnosis).

As the preclinical training has been shortened by at least a year, we have that much time in hand and must be careful to spend it wisely. I would suggest that it be devoted entirely to the study of patients. For every hour I spent in personal contact with patients I spent three or four hours at lectures, on

ward rounds, or in the theatre or post-mortem room listening to talk or watching others doing things. Apart from one month as extern midwifery clerk there was no opportunity for gaining any experience of the doctor-to-patient relationship, or for developing a technique in approaching patients.

There might be a system by which students in their last year could be apprenticed in small groups to the different casualty officers or junior house-physicians, very much as the extern midwifery clerks are apprenticed to the extern midwifery houseman. The student would be responsible for his cases, when in doubt would engage the houseman in consultation, would follow their progress through the various departments for special examination and would not lose sight of them if they were admitted into the wards. Above all he would make real contact with ordinary people who were ill in body or mind, and would perhaps sense that Enigma Theme which, though never heard, breathes through every variation of man's unhappiness.

* * *

Couldn't those who are obviously destined to join the honorary staff receive some instruction in the craft of teaching? At our teaching hospitals we have some of the finest medical men in the world, gifted with knowledge, intuition and humanity. Some are superb teachers, others are rotten. A surgeon's technique in regional surgery may be the envy and admiration of Europe, a physician's researches in biochemical disorders may revolutionise the world's thought, but, unless they can teach, a teaching hospital ought not to puff itself up at having them on its staff. Wretched students will waste three or six months' clerking or dressing on their firms gaining unique experience in rare diseases, but learning little about the commoner complaints in which these specialists are obviously uninterested—and perhaps unversed.

* * *

Let us also have special courses for Consultants where Manners shall be taught (*a*) for hospital use and (*b*) for use at private consultations.

Hospital staffs seem to reason thus: "If we don't pay our housemen anything, feed them poorly in a basement, provide no facilities for recreation and then make them pay for their laundry, we shall only get the Very Keen Men applying, and that will be grand." They won't—except at the big teaching hospital where a resident will put up with almost any inconvenience for the cachet that such an appointment carries. Provincial hospital staffs do not realise that any candidate who is not completely down and out makes various inquiries about the hospital when he comes up on a short-list—if not before. The questions he puts to the residents include, "Is there a garage for my car? What's the food like? Any free beer in the Mess? Do you get many inquests? Do the honoraries snaffle the fees? What are the honoraries like? Gents or Hobos? Do they snoop round the wards on Sunday morning? Do they get first crack at accident-claim forms? Do they take you out assisting at private operations? Do they give you any major stuff to do? Am I likely to learn anything? Do I ever get any weekends off?"

I won't guarantee the order; but it is certain that the hospital staff that earns an unsavoury reputation concerning these issues gets the housemen it deserves, which may be tough on the patients. I remember a friend of mine from the Dominions, who held both the M.D. and M.R.C.P., applied for the post of house-physician at a Provincial Hospital, was short-listed, interviewed and finally recalled before the staff to be congratulated upon his appointment: but meanwhile he had learned that the H.P.'s duties included the giving of anæsthetics for all emergencies and on those occasions—i.e., weekends—when the visiting anæsthetists couldn't conveniently come. In a brief but telling classical phrase he declined the honour. . . . It was all very Christmas-Day-in-the-Workhouse.

* * *

The Embryonic Consultant should have it drummed into him that there are only three reasons why he is ever called into private consultation: (*a*) the patient or his relatives have asked for a second (but not *necessarily* a different) opinion; (*b*) the practitioner wants his opinion; or (*c*) the practitioner wants his support. In any case the practitioner will be glad of his support so far as he can conscientiously give it.

The Perfect Consultant learns in advance all he can about the case, and in particular what has already been told to the patient and the relatives. Mindful that when he himself is ill he prefers the attentions of a general practitioner to those of another "specialist," he regards general practitioners as his colleagues, and this attitude shows itself at the patient's bedside. He listens to the patient's history, examines him carefully, and lets off no fireworks—yet. Then he discusses the case with his colleague in another room. They may disagree, in which case he listens to his colleague's views and patiently argues his case. If necessary both return to the bedside and re-examine the patient together and retire once more. Before this consultation is ended some agreement is reached and it is decided what line is to be taken. The general practitioner, knowing the mental make-up of the patient and relatives, can advise as to the best way in which the situation can be approached. Finally the consultant leaves the patient tacitly reassured that he is in the hands of a highly trusted colleague.

All the foregoing may appear commonplace, but just watch the Consultant Who Has Never Learned Better in action! He refuses any priming by me and prefers "to approach the case with an open mind." Actually he approaches it with a jocular sort of well—what-sort-of-a-mess-have-I-got-to-get-you-out-of? attitude. I stand by in dumb misery while he extracts with leading questions a totally misleading history of the case. Occasionally he tosses me a rude question like "You haven't done a fractional test-meal, I suppose?" and I mumble "Er—no," instead of answering "How the hell do you expect a G.P. to do a fractional test-meal?" because it would be rude and disloyal. And besides, I haven't the guts.

As soon as the dining-room closes on us he weighs in with, "Well, my dear boy, this is obviously a case of such and such. What interests me is the absence of the usual physical signs. . . . It would be interesting to do a fractional test-meal on her. . . . She'd better come into a nursing-home and then we can do that and a complete barium series and X ray her chest. . . . Which would they prefer? Nursing-home?—or I dare say I can get her a bed in the private wards at the hospital. We'll see. Well, let's get back to them."

Well, he may be right or he may be wrong; but by now the situation is entirely out of hand, and I have quite made up my mind that I don't like the man. (I very much wish I could whip out an X-ray photograph or a pathological report which would confound his cocksurety; but I also know that, had I held any such trump cards, I should have had to lead them prematurely, and he would have taken

them.) So I shrink back with him to the bedside, looking as guilty as if a carpenter had exposed me driving screws in with a chisel.

Alternatively he may even waive the formality of withdrawing for consultation and fire off his hasty conclusions while drying his hands. . . .

I sometimes wonder how these Consultants Who Have Never Learned Better manage to make a living if they are called in once but never again. I see that this problem engaged my attention even as a student, for I find entered in my commonplace book in December, 1922: "The lady with the wooden leg outside St. Martin's Theatre tells me she makes £15 per week letting camp-stools to the theatre queues, but that Queue Entertainers make even better money, and that during the earlier hours of the day one wouldn't recognise them as the same battered outcasts. At a favourable opportunity I am resolved to approach —— (one of the worst-mannered honoraries at my hospital) from behind, hiss in his ear '*What do you do in the evenings?*'—and see if he pales"

Actually, of course, I didn't dare.

Next month A Woman Public Health Officer will be responsible for these columns.

LETTERS TO THE EDITOR

CHEMOTHERAPY AND THE WHITE CELLS

SIR,—One or two cases of agranulocytosis in patients under treatment with M. & B. 693 have been reported. The occurrence of lesser degrees of granulopenia has received scant notice in the medical press, yet in a comparatively small experience of the drug I have had to deal with it on several occasions, sometimes after relatively small doses. In every case pentose nucleotide has effectively cleared up the condition, and if treatment is instituted early and the case is carefully controlled mild granulopenia seems not necessarily to be a contra-indication to the continuance of the M. & B. 693, should this appear desirable on other grounds. In the early stages at any rate the changed blood-count is not accompanied by any specific toxic manifestations, so that I now do routine leucocyte-counts on all cases under treatment with M. & B. 693, their frequency depending on whether relative sensitivity to the drug is found in the first few counts. May I quote one or two illustrative cases?

1. *Lobar pneumonia due to pneumococcus type* II.—After 6 grammes of M. & B. 693 the white count was 19,200 (polymorphs 94 per cent.). Two days later, after 16 g., the white count was 4800 (polymorphs 40 per cent.). M. & B. 693 was discontinued and 10 c.cm. of Pentide was injected intramuscularly. Next day the white cells had risen to 6800 (polymorphs 50 per cent.). A further 10 c.cm. was given and on the following day the white cells numbered 10,200, of which 62 per cent. were polymorphs.

2. *Severe bronchopneumonia*, with mixed flora, though pneumococci predominant, in the sputum.—After 12 g. of M. & B. 693 the leucocytes were 10,400 (polymorphs 78 per cent.), and after 22 g. the figures were 17,600 and 74 respectively. A total of 25 g. was given. Five days later, as the patient's condition had markedly worsened since the cessation of the M. & B. 693, the drug was again given. After a further 10 g. the white cells had fallen to 8600, of which 92 per cent. were polymorphs. In view of the relatively low total count the M. & B. 693 was discontinued, but nevertheless six days later the white-cell count was 1100 (polymorphs 27 per cent.); the red cells were 2,840,000 and the hæmoglobin 60 per cent. Pentide (30 c.cm.) and Hepatex (6 c.cm.) were given, and the next day the count was: white cells 3800 (polymorphs 34 per cent.), red cells 3,680,000, hæmoglobin 76 per cent. A further 20 c.cm. of pentide and 6 c.cm. of hepatex was given on each of the next two days, after which the count rose to 15,800 white cells (polymorphs 65 per cent.), 3,760,000 red cells, and hæmoglobin 72 per cent.

3. *Bronchopneumonia, empyema and septicæmia* with a gram-negative bacillus, possibly an abnormal hæmophilus, in the blood.—Unfortunately no initial count was done, but after 7 g. M. & B. 693 the white cells numbered 5800 (polymorphs 68 per cent.). The drug was discontinued and 20 c.cm. pentide was given. Thirty-six hours later, however, the white cells were down to 2900 (polymorphs 37 per cent.). Further doses of pentide (20 c.cm. and 10 c.cm.) were given on successive days, and twelve hours after the latter dose the leucocyte count had risen to 27,200 and the polymorphs to 68 per cent. Five days later, as the patient was dangerously ill, it was decided to try M. & B. 693 again, giving pentide as a prophylactic against granulopenia. Accordingly 1 g. four-hourly was administered, with 10 c.cm. pentide on the first day. The initial white-cell count was 22,800 (polymorphs 93 per cent.). The following day counts of 16,400 (88 per cent.) and 19,400 (81 per cent.) were obtained in morning and evening respectively. A day later the white cells were down to 12,400, of which 80 per cent. were polymorphs; so a further 10 c.cm. of pentide was given, resulting in a count twelve hours later of 28,200 white cells (polymorphs 89 per cent.). After another two days, when 30 g. of M. & B. 693 had been given in this second course, the white cells numbered 28,400 (polymorphs 89 per cent.). The drug was having no further effect on the disease and was discontinued. The high leucocyte-count was maintained until death a week later.

I should like to thank Colonel C. M. Finny, officer commanding the Queen Alexandra Military Hospital, Millbank, for permission to publish these cases.

I am, Sir, yours faithfully,

London, N.W.1, June 17. J. W. CROFTON.

THE PROBLEM OF MEDICAL LITERATURE

SIR,—Professor McDowall, in his frank and devastating criticism of the present state of production and distribution of medical literature, must have voiced the feelings, not only of many medical men, but also of a number of "medical" librarians in this country and elsewhere. As a member of the latter class, I hope it will not seem an impertinence if, whilst stating general agreement with all that Prof. McDowall says, I venture to make one or two comments from the librarian's point of view.

The whole root of the matter is, of course, that (as he puts it) the general problem is nobody's business. Most research workers are concerned mainly in getting their references as speedily as possible and are not interested in the technical problems involved in filing and making their own work most readily available; whereas the librarian, who appreciates these difficulties and wants to overcome them, is hampered to some extent by the lack of realisation on the part of many medical men of the enormous difference a properly organised library service can make, and indeed what a fundamental part it has to play in the advance of medicine. In plain words, it is, as Prof. McDowall says, more coördination that

is required, not only between the various libraries, but also between research workers and librarians.

The problem is now a mountainous one and, as I see it, nothing will suffice short of a conference, or a committee, representing both medicine and librarianship, to go into the whole matter in detail. Such a committee would have the task of reviewing possible means of coöperation between the various libraries, large and small, as well as that of considering what steps might be taken to regulate the publishing of specialised journals, and organising a really comprehensive system for reviewing medical literature, such as British Chemical and Physiological Abstracts does in its field, and, in a smaller way, International Abstracts of Surgery for the surgical side of medical science.

As to the coördinating of medical libraries, the whole problem is aggravated by the unwillingness to lend on the part of so many of them. Nevertheless, a first practical step would seem to be the collection and collation of the complete lists of periodicals (and the larger handbooks, encyclopædias, &c.) taken by the numerous medical libraries in London. A beginning was made 15 years ago by Prof. R. T. Leiper with the help of the science committee of the British Medical Association. The unified list, circulated to all libraries and institutions, would indicate the two or three places where they could most conveniently obtain what they were seeking. Under the guidance of a coördinating committee, it would certainly be possible to develop a system of small highly specialised collections housed in the institutions or hospitals where they would be most in demand, and yet available for distribution to other more general medical libraries. Each of these specialised libraries could also supply abstracts and reviews appearing in the various specialised journals and these could be made more readily available still by incorporation in a comprehensive publication (called, say, "Medical Abstract" or "Review of Medicine"). Such a general medical abstract would need to be well organised, but could be tackled by some responsible body such as the B.M.A. After all, its sister association across the water presents the medical profession with what is undoubtedly the most valuable bibliographical tool it has; why could not our organisation make an equally valuable contribution without unnecessary overlapping? If the B.M.A. could not undertake the task, the Medical Research Council, under an extended grant, could do so efficiently.

But the whole problem needs thorough discussion before anything really practicable can be put into operation—as it undoubtedly must be in the near future, if confusion is not to be worse confounded.

I am, Sir, yours faithfully,

G. A. LLOYD,

Librarian, British Postgraduate Medical School.

Ducane Road, W.12, June 17.

THE ORIGIN OF FIBROIDS

SIR,—In their instructive paper in your issue of June 10 Prof. Lipschütz and Dr. Vargas show that the fibroids they have produced experimentally with follicular hormone differ fundamentally from true neoplasms: they do not possess the property of autonomous growth; they require the presence of the growth-exciting œstrogen not only for their appearance but for their continued existence; and they regress when the application of this hormone is reduced. This helps to explain why fibroids in women differ from neoplasms in their response to X-radiation.

It has been repeatedly shown that with small doses of so-called superficial X-radiation, as distinct from radium or massive deep X-radiation—doses so small that they do not cause the slightest discomfort or reaction in the patient—fibroids and the symptoms due to them gradually disappear. I have never had a case which failed to respond in this way. The work of Prof. Lipschütz and Dr. Vargas supports the idea that irradiation acts by checking the formation or absorption of the hormones that cause growth and continuance of the fibroids. Whether this is or is not the whole explanation, the method certainly deserves more extensive use.

I am, Sir, yours faithfully,

Birmingham, June 17. JAMES F. BRAILSFORD.

SEX-INCIDENCE OF CANCER OF THE STOMACH

SIR,—Sir Arthur Hurst suggests that I have misunderstood the statistics he quotes relating to cancer of the stomach. The statistics, I think, are clear and unequivocal. What I cannot understand is the rationale of his allowance for the female deaths from cancer of the breast and uterus. If Sir Arthur's theory of extrinsic and intrinsic factors is correct it might possibly explain why the female gastric-cancer death-rate is lower than the male rate; but even should the theory be fully proved there can be no help gained by comparing percentages taken on a dissimilar basis.

I am, Sir, yours faithfully,

Derby, June 15. BARON RUSSELL.

THE UNREGISTERED SPECIALIST

SIR,—May I take this opportunity of drawing the attention of the profession to what might be considered as an abuse of the privileges extended to those refugees of professional standing who are now amongst us. I refer to those refugee "specialists" who are not permitted to practise here on account of failing to possess the necessary qualifications for registration. Abroad, these men have been well established at various clinics or spas, their clientele consisting of wealthy visitors from those countries where the élite are specially impressed by elaborate treatment and cures which are peculiar to the locality and the nationality of the physician concerned. Through the medium of refugee associations, these gentlemen are permitted to take up residence in fashionable quarters in this country, where they re-establish contact with the wealthy clientele which attended them abroad. The difficulties arising from lack of registration are surmounted by the foreign specialist's adopting the rôle of consultant, and advising his patients to communicate with their private doctors, who are requested to prescribe according to his dictates. In those instances where the services of a registered practitioner cannot be secured by the patients, the consultant is able to suggest a doctor with whom he can collaborate. It is curious to observe that here the foreign consultant refers his patient to a physician or surgeon, to whom the matter may cause considerable concern. In refusing to associate with such a practice the registered practitioner loses his wealthy patients, and is left to attend hospital outpatients, whilst the foreign specialist is consulting privately throughout the day. As I have had experience of these methods on more than one occasion I have considered it necessary to place the matter before the secretary to the ethical committee of the British Medical Association. I am, Sir, yours faithfully,

E. SUTHERLAND-RAWLINGS.

New Cavendish Street, W., June 20.

UNORTHODOX ETYMOLOGY

SIR,—I was a little puzzled to read in Prof. E. Mira's article in your last issue (p. 1395) that "fear makes a person terrified—i.e., converted into *terra* (earth). A terrified subject feels himself as inanimate and motionless as a stone (petrified)." Does Dr. Mira regard the derivation of "terrified" as analogous to that of "petrified"? He might with equal justice claim support from Genesis, 19, 26, where it is related that Lot's wife was turned into a pillar of salt—although in her case curiosity got the better of fear. The orthodox etymologist would derive "terrify" from *terreo*, which, together with Τρέω, "tremble," Irish *tarrach*, and Slavonic *tresa*, is akin to the Sanskrit *tras* (tremble). *Terra* seems to be derived from the same root as the Sanskrit *tarsh* (dry) and is akin to *torridus*, "thirst," and German *Durst*, meaning dry land. Someone might attempt to connect the two words, "terrify" and *terra*, through the medium of "earthquake"; he would be following in the footsteps of the cricket fan of some thirty-five years ago who invented the equation: terracotta = terror Cotter.

I am, Sir, yours faithfully,

June 17. "DR. PANGLOSS."

PUBLIC HEALTH

Prompt Control

AN outbreak of diphtheria in the urban district of Wilmslow led to the prompt isolation of fifteen persons in the Monsall Hospital, Manchester. We are informed by Dr. D. G. Anderson, medical officer of health for Cheadle and Wilmslow, that the first notifications reached him on June 9 about 5 P.M.; all practitioners in Wilmslow and Alderley Edge were rung up and by 10 P.M. eleven cases of diphtheria had been traced. As all these persons, except two in one household, had partaken of milk from a particular supply, this supply was at once stopped by written notice. On the morning of June 10 a house-to-house canvass was made of the customers of the affected dairy, with an inquiry for any history of sore throats in the household and the name of the family doctor. A meeting of local practitioners was then called, when each of them received a list of the customers who were his patients. It was then agreed that each practitioner should visit his own patients and offer passive immunisation if he thought fit, and that throat swabs should be taken from both adults and children. This was done during June 10–11, and at the same time contacts were followed up. The last definite case was notified during the night of June 11–12; two other persons have since been removed for observation. It has now been ascertained that the one infected household stated not to have had milk from the suspected source had in fact obtained a small bottle of milk from this source which was consumed only by the two children who contracted diphtheria. Up to date there have been 15 confirmed cases (with 2 deaths) and 2 observation cases.

Militiamen with Infections

Public-health authorities are being asked to collaborate with the civilian medical boards in the examination of men called up under the Military Training Act. Where a recruit's present condition or history suggests that he may be suffering from pulmonary tuberculosis, the chairman of the board has authority to obtain a specialist opinion. Local authorities are asked to place their tuberculosis officers at the service of the board and to furnish a report on any of their patients or ex-patients. Where a recruit is receiving treatment at a V.D. centre the Ministry of Health has indicated to the local authority the desirability that his treatment should not be interrupted. The suggestion in this case is that the patient should be supplied at the treatment centre with form V.15 setting out particulars, and instructed to present it when undergoing examination at the medical board. It is generally believed that such patients would be prepared to ask for this form and to pass it on as desired. The follow-up system offers a possible check, as absence from treatment would be noted and could be inquired into, but the secrecy regulations make it desirable to get the patient himself to be the bearer of the information. Evidently in both cases the possible danger to comrades has been a matter of close consideration. Probably a large majority of the new recruits are unconnected with youth organisations, and it is the policy of the British Social Hygiene Council to see that the need for sex guidance is supplied.

INFECTIOUS DISEASE

IN ENGLAND AND WALES DURING THE WEEK ENDED JUNE 10, 1939

Notifications.—The following cases of infectious disease were notified during the week: Smallpox, 0; scarlet fever, 1321; diphtheria, 755; enteric fever, 34 (29 "expected"); pneumonia (primary or influenzal), 743; puerperal pyrexia, 209; cerebrospinal fever, 30; acute poliomyelitis, 2; acute polio-encephalitis, 1; encephalitis lethargica, 1; dysentery, 24; ophthalmia neonatorum, 115. No case of cholera, plague or typhus fever was notified during the week.

The number of cases in the Infectious Hospitals of the London County Council on June 16 was 2891, which included: Scarlet fever, 656; diphtheria, 514 (carriers, 23); measles, 7; whooping-cough, 878; puerperal fever, 16 mothers (plus 7 babies); encephalitis lethargica, 304; poliomyelitis, 3. At St. Margaret's Hospital there were 25 babies (plus 9 mothers) with ophthalmia neonatorum.

Deaths.—In 126 great towns, including London, there was no death from smallpox, 1 (0) from enteric fever, 3 (1) from measles, 2 (1) from scarlet fever, 16 (0) from whooping-cough, 17 (2) from diphtheria, 39 (14) from diarrhœa and enteritis under two years, and 17 (1) from influenza. The figures in parentheses are those for London itself.

Ilford reported the only death from typhoid. Liverpool had 5 deaths from whooping-cough. Fatal cases of diphtheria were scattered over 15 great towns, Birmingham reporting 2. Birmingham had 8 fatal cases of diarrhœa, no other great town more than 2.

The number of stillbirths notified during the week was 243 (corresponding to a rate of 33 per 1000 total births), including 42 in London.

"I do not wish to underestimate the value of the re-housing work that has been done; but few who have seriously thought about the problem in a personal, human way could possibly feel complacent as to the results so far achieved. If we are content to consider the business of home-building in the terms of an old-fashioned textbook of hygiene, oblivious of the fact that men, women and children have needs other than cleanliness, neatness and orderliness, then the average Council flat, like the modern prison-cell and the modern infirmary ward, represents a tremendous advance on the average industrial worker's house as it existed in the time of Queen Victoria. But the hygienic man, woman, or child is as imaginary as is the economic man or the unicorn."—Dr. HARRY ROBERTS in the *New Statesman*, June 3, 1939.

PARLIAMENTARY INTELLIGENCE

ON THE FLOOR OF THE HOUSE

By MEDICUS, M.P.

THE House of Commons has finished with the Civil Defence Bill, which passed its report stage and third reading after three days of debate. The bill has now gone up to "another place" with a tail of undefined amendments still clinging about it. It must be a long time since such a detailed and complex measure has gone through the House, and the difficulty and the complexity have been increased by the subject of civil defence being so new as to need not only good drafting but good prospecting and exploring. As one member said, the bill which has passed is a foundation for a great deal more constructive work and not in itself a complete building. This applies especially to those parts of the organisation which affect the medical services and those by which the medical services may be particularly affected.

The arrangements for first-aid parties to deal with casualties in the areas attacked, with the first-aid posts, some with and some without emergency beds, and the chain of other hospitals behind the first-aid area are only laid down in outline. It will be the business of medical officers of health in every area to coördinate the different services and see that they work smoothly together. The M.O.H. will be, under air-raid conditions, in the exact position of the commanding officer of an area in so far as all medical services are concerned. He will get information and advice from organisations higher in the administrative hierarchy, some of which will belong to the Ministry of Health and some to the Lord Privy Seal. But it will be the M.O.H. personally who will endure the heat and burden of the day. Efforts were made in the House to get the chain of command clearly marked out and clearly understood by all concerned from the Minister or Ministers to the rank and file workers in the field. But amendments directed to this end were not accepted. So the responsibility of creating the organisation which will make a number of different services work together devolves on the M.O.H. Presumably the M.O.H.'s of the London boroughs and of large urban areas all have to arrange for the services under their control to have exercises in mock air-raids.

Another aspect of the bill of medical interest is that of compensation for injuries. It was necessary to make a special arrangement for dealing with compensation for injury or death in the case of volunteers in any of the A.R.P. services, for workmen's compensation does not apply to them and their rights at common law are undefined and possibly non-existent. The scheme of compensation provided for in the bill will apply to volunteers, but the exact scope of the compensation payments were not included in the bill when it left the House of Commons except in a left-handed way. The Lord Privy Seal said what the terms of compensation for A.R.P. volunteers would be in answer to a parliamentary question over two months ago. The outline provision for compensation provided in the bill was linked with this answer by both the Lord Privy Seal and the Financial Secretary to the Treasury. But it was widely felt in the House that this patchwork method of legislation left a good deal to be desired. The scale of compensation is said to be rather better than that provided by the Workmen's Compensation Act—let us hope that it is.

Another compensation difficulty in the bill arose with regard to accidents caused by interference with the pipes or cables of water, gas, electricity or other public-utility companies. It was desired to guard these companies against unreasonable claims, but in the original draft of the bill they were so far indemnified against having to pay compensation as to shut out possible just claims. The Government therefore accepted a Labour amendment to preserve the right to workmen's compensation in appropriate cases.

* * *

The organisation for evacuation will create a good many problems of medical practice and a good many sanitary problems, especially where water-supply is not adequate. And this applies to arrangements for dealing with what the House has been calling the priority classes of children, women with children under five, and nursing and expectant mothers. To these will be added certain groups of invalids, and blind, disabled and old people of both sexes. But the opinion was expressed in the House again and again that in the case of the aerial bombardment of any large town there will be, in addition to these priority classes, large numbers of other people who will, on their own initiative, seek refuge outside the town in the country reception area nearest at hand. If there flow out from London, Manchester, Birmingham, Sheffield, Glasgow, Leith or any other large town or important industrial area any large number of "non-priority" refugees, an acute public-health problem will be rapidly created. And this is another problem which will fall to be solved by the M.O.H. and the local emergency committee of the B.M.A.

These are only some of the problems of civil defence which will have to be solved by adaptation of the administrative machine of local government plus the machine of local emergency organisation of the medical profession. The Civil Defence Bill has created the possibility of organisation, provided sanctions for necessary action and provided a financial basis for the work. But no-one in the House of Commons thinks that we have seen the last of civil defence legislation. I heard speculations on the probability of amending legislation in the early months of 1940.

* * *

There has been a little misunderstanding about the priority classes. The Government, through the Ministry of Health, are making arrangements for the evacuation of school-children, women with children under five, and nursing and expectant mothers. These arrangements are being made through the elementary and secondary schools organisation under the control of the local authority. But children attending private schools at which they pay fees, or grammar schools, high schools or public schools will be eligible to take advantage of the Government's plans for evacuation on exactly equal terms with those who attend elementary schools. And the provision for mothers of children under five and nursing and expectant mothers applies to all women of all classes or occupations. If the middle-class father desires to make private arrangements for his children or his wife he will be able to do so, but only before the main evacuation begins or after the main evacuation is over, unless he can arrange private transport which will not hinder the large public plans of evacuation and the large military movements

which will be going on at the same time. There is also the question of petrol. All petrol at the outbreak of a war will at once be severely rationed. This means in practice that the general public scheme of evacuation will be the only one practically available in the first few days of an emergency as far as children are concerned and except in very special cases. If evacuation can be timed by those with cars of their own so that children can be taken to the country—and all billets will need to be registered—in advance of an emergency then well and good. But that timing is not going to be easy.

FROM THE PRESS GALLERY

Evacuation of Hospitals

IN the House of Lords on June 14 Lord CRAIGMYLE asked for details of the arrangements made for the evacuation of hospitals in vulnerable areas in England and Scotland. He said that this question was causing a good deal of anxiety, and he hoped that real progress had been made since it was last debated. In a way this question was as important as any, because on the smooth functioning of our hospital system in a crisis depended public confidence. Hospitals would have to face a situation entirely different from that in the late war, for the peak would now be reached at once, and in the first days they would have to expect a load of additional cases which must be reckoned, as some of the most sober and experienced experts assured them, in hundreds of thousands. If our hospital organisation proved unequal to the task of handling this sudden load the morale of the civil population would receive a most damaging blow. It was clear that there must be a great displacement of the existing hospital patients from vulnerable areas into less vulnerable ones. It was estimated that 50–60 per cent. of patients would be expected to return to their own homes. These patients were not in hospital except for most serious causes, and if they were to be dispersed to their homes he would like to know what medical and nursing provision was going to be made for their care. Another problem of moving on patients from vulnerable hospitals to those in less dangerous areas was that the inmates of the hospitals or institutions which had to receive them would also have largely to be removed elsewhere. In view of the vast numbers of hospital cases for which provision would have to be made there was probably not even in England, and certainly not in Scotland, sufficient accommodation adequately equipped to deal with the burden. He saw no adequate answer to the problem except the provision on a really wide scale of temporary accommodation in hospital units in safer areas, probably of several hundred beds each. The Minister of Health had said that 40,000 beds were being arranged for in temporary buildings. That was not nearly enough. He doubted whether it was a tenth of the number that ought to be provided for. And even that number was arrived at only by sending home many thousands of people who were in hospital in the interests of their life and health, or by crowding existing institutions in a way which made it most difficult for the personnel to carry on efficiently. He hoped that there would be no cheeseparing in this matter of temporary buildings, and also that in the interests of economy a larger number of patients would not be put in each hut than medical men considered advisable.

Even more important than the provision of huts, beds, stores and so on was that of trained personnel. During the last war 30–50 per cent. of all the non-fatal casualties were orthopædic cases, and in the air-raids in Spain 50 per cent. of the casualties were orthopædic cases. In England they were fairly well equipped to deal with these cases, there being no fewer than 40 orthopædic hospitals where surgeons and nurses could be trained. There was no hospital in Scotland during the last war capable of giving nurses an orthopædic certificate; consequently Sir Robert Jones arranged for American orthopædic surgeons to come to Scotland and it would be true to say that the United States ran the orthopædic surgery of Scotland during the war. Unfortunately Scotland still had no orthopædic hospitals which could treat adults and therefore could train surgeons and orthopædic nurses. Scotland had to steal its orthopædic nurses from England, and there were none too many of them there. Lord Craigmyle asked whether in the allocation of doctors and surgeons to the various civil hospitals the requirements of the Navy, Army and Air Force had been kept in mind. He said that during the last war Sir Alfred Keogh at the War Office was assisted by a consultants' council, and asked whether similar arrangements were being made now. He also emphasised the value of temporary buildings on an adequate scale as providing rallying points for supernumerary nurses, and he drew the attention of the Government to the necessity for providing domestic staff for the hospitals.

Lord ADDISON wanted to know what the Government had done with regard to emergency receiving stations in London. Many medical men thought that there ought to be underground clinics to give first-aid and other treatment for casualties; they ought to have been provided by now.

Lord GREVILLE said he was informed that for every bed in London they ought to have at least four beds outside, but he thought that far from that being the case the beds in the base hospitals were more likely to be one for every four beds in London, unless there were large hutting arrangements of which they knew nothing. He understood that the group medical officers were more or less responsible for allocating medical men to the different hospitals. So far they had not been told of any allocation, nor had they been told how these medical men were to be paid; and whether they were to be under any sort of authority with a rank or merely civilians.

Lord HUTCHISON OF MONTROSE said he did not know what arrangements had been made by the Government with the medical schools for earmarking the older students now for the staffing of the hospitals in the country to which patients were going to be evacuated. Many of the smaller hospitals were trying to arrange their evacuation themselves because they felt that many of their patients were quite unfitted to be sent home. These hospitals needed some guarantee from the Government that when the time came for reconditioning the houses which they took over for evacuation purposes they would receive financial aid from the state.

PROGRESS OF THE GOVERNMENT SCHEME

The Earl of LUCAN, replying for the Government, said that the principle of the scheme was that casualties should not be retained in hospitals in the most dangerous areas for any longer than necessary. Accordingly, efforts had been concentrated on increasing hospital accommodation in the safer areas and on providing adequate means of transport. From 30 to 50 per cent. of the existing beds in hospitals could be cleared within twenty-four hours by sending home all persons who were no longer in urgent need of hospital treatment. The nursing of patients sent home would be provided for by the district nursing services augmented for the purpose. In London, which was better provided with hospitals than any part of the country, it was hoped to reduce the beds normally in use, and these hospitals in dangerous areas would become virtually dressing or casualty-clearing stations. The hospitals had been requested to make their own arrangements for the transport of patients to their homes where possible, but where it was not possible the women's voluntary services were organising convoys of volunteer cars and drivers. The Ministry were proposing to extend the hospital accommodation in the safer areas first, by crowding additional beds into existing hospitals and institutions; secondly, by up-grading existing institutions by

the provision of additional equipment, operating-theatres, and so on; and thirdly, by building hutments, which for the most part would be wards attached to existing hospitals and institutions, but were being formed into ad-hoc hospitals where no suitable parent institution existed.

The great majority of the 100,000 additional beds in existing institutions would be in the safer areas. Nearly half of these beds had already been distributed and the distribution was expected to be completed by the end of July. Over 150 institutions in England and Wales had been earmarked for up-grading and arrangements were now in hand for the necessary adaptations and extra equipment. In the last two months medical officers and engineering inspectors of the Ministry had been visiting these institutions and discussing with the hospital authorities what works of adaptation were required. In many cases the work had already begun. It had been decided to erect as soon as possible new hospital buildings in the form of huts capable of accommodating an additional 30,000–40,000 beds. The Department of Health for Scotland were simultaneously erecting huts capable of accommodating 9000–10,000 beds. Arrangements for the construction of three-quarters of the English programme were already well in hand. In London the whole region had been divided up into ten sectors radiating from the Thames outwards, and at the apex of each of these was one of the great teaching hospitals which was to act generally as parent to the sector. In war casualties would be drained outwards along each sector and the aim had been to provide sufficient hospital accommodation in the outer part of each sector to serve the hospitals in the inner part. Approximately 500 hospitals were included in this scheme.

EQUIPMENT AND PERSONNEL

In the London region administration and staffing was being developed as part of the sector scheme. Group officers appointed from the teaching hospitals were now working out plans for the dispersal both of personnel and equipment from the well-provided institutions in the inner areas to the outer areas which were not ordinarily accustomed to undertake acute surgical work. In some cases arrangements were being made for the complete transfer of such of the staff as could be spared from the centre to one of the base hospitals in the outer part of the sector. In the provinces much the same scheme was being adopted. First-aid posts were being provided for every area of the country.

It was estimated that there would be approximately 3000 aid posts in England and Wales, of which between 500 and 600 would be mobile units—that was to say, vans fitted to carry all the medical and surgical equipment of a first-aid post together with a doctor and a nurse. Drugs, dressings and surgical equipment sufficient to supply all these aid posts were in process of distribution. As a rule these first-aid posts would be accommodated in basements. The Ministry were contemplating a further order of beds. Orders had been placed for £234,000 worth of drugs and dressings, and it was estimated that this would provide an adequate initial supply for 250,000 casualty beds and also for the first-aid post service. Approximately nine-tenths of these drugs and dressings for casualty beds were being distributed to the provinces, as the London County Council had already acquired sufficient reserves for their own hospitals. The distribution of drugs and dressings would be completed by the end of this month. Orders had been placed for surgical instruments and equipment sufficient for 75,000 casualty beds at a cost of nearly £500,000. This equipment was to be distributed to the hospitals being up-graded, and delivery had already begun. Schools were not to be used for hospitals, except one or two public schools which were to be converted into hospitals of a special character—for instance, neurological cases. There were to be 40 patients per hut, which gave a spacing of 5 ft. between bed centres. The requirements of the Navy, Army and Air Force for medical officers were coördinated with civilian requirements through the British Medical Association's central emergency committee, which advised on all questions of medical personnel. As regards nurses, the Civil Nursing Reserve for the hospitals was being recruited by the central emergency committee for nursing. Recruiting was proceeding steadily, although many more were required.

Civil Defence Bill

In the House of Commons on June 14 the Civil Defence Bill was read the third time. Dr. HADEN GUEST said that the medical profession would welcome more information about the medical arrangements, and about first-aid parties and casualty work generally, not only for their own use but also to pass on to the public. If the public could be assured that a sound plan existed and that casualties would be adequately dealt with that would contribute to maintaining the morale of the people.—Mr. HUBERT BEAUMONT complained that no provision was being made to meet any proportion of the cost incurred by isolation hospitals for protective measures against hostile air attack. If they were going to protect their patients, as all agreed they should, it would mean a great additional cost to local ratepayers.—Dr. EDITH SUMMERSKILL said that her father was a doctor, and she remembered that during air-raids in the last war there were waiting in the consulting-room men and women drawn from every grade of society. It was interesting to see how they reacted. They found that equal treatment was needed for these people, except in one or two cases. These became hysterical and could not be kept in the waiting-room with the others for fear of panic. Therefore they were induced to go to a deep air-raid shelter near at hand. The Lord Privy Seal had many times insisted on equal treatment for those exposed to equal danger. What was he going to do for the people who did not react equally and who could not bear the nervous strain? He might be forced to change his mind about deep air-raid shelters. Last July she was in Barcelona when two or three air-raids were taking place every week. In the hotel where she was staying most people were pretty phlegmatic, but there were some of a hysterical type who had to go to a deep air-raid shelter. She urged the Lord Privy Seal to open his mind a little more on this subject.

Sir JOHN ANDERSON, Lord Privy Seal, said that in many ways this was a most unpalatable bill, but exceptional times demanded exceptional measures. He fully recognised the importance of education of the public. The Government had for some time been considering how best they could put before the public the things they ought to know about civil defence. Steps in that direction were already being taken. He assured Dr. Summerskill that problems of mass psychology were by no means left out of account by members of the Hailey committee.

QUESTION TIME

JUNE 14–21

Militiamen: Standards, Tests and Records

Dr. HADEN GUEST asked the Minister of Labour what were the standards of physical fitness demanded for the four classes of militiamen when they were medically examined.—Mr. LENNOX-BOYD replied: The following is a complete description of the four grades: The four grades in which men are placed after medical examination are: Grade I, men who, subject only to such minor disabilities as can be remedied or adequately compensated by artificial means, attain the full normal standard of health and strength, and are capable of enduring physical exertion suitable to their age. Grade II, those who, while suffering from disabilities disqualifying them for Grade I, do not suffer from progressive organic disease, have fair hearing and vision, are of moderate muscular development, and are able to undergo a considerable amount of physical exertion not involving severe strain. Grade III, those who present such marked physical

disabilities or evidence of past disease that they are not fit for the amount of exertion required for Grade II. Grade IV, those who suffer from progressive organic disease or are for other reasons permanently incapable of the kind or degree of exertion required for Grade III. These men are unfit for any form of service.

Mr. GORDON MACDONALD asked the Minister of Labour whether the same standard of physical fitness was applied in the medical tests of the militiamen as was done for recruits for the regular forces.—Mr. LENNOX-BOYD replied: No, Sir; the medical examinations for the regular forces have in view the needs of particular units, whilst the examination of militiamen is of a more general character.

Mr. DE LA BERE asked the Minister of Health whether, in connexion with the calling up of militiamen, any use would be made of the data collected at their initial medical examination to ascertain the physical state of this unselected sample of the population.—Mr. ELLIOT replied: Yes, Sir. As my right hon. friend the Minister of Labour stated on the 12th instant, we hope that these data will supply valuable information as to the health and physique of men falling within the age-group concerned.

Students and Military Training

Mr. HARVEY asked the Minister of Labour whether students entering in 1939 a residential college, other than a university college, would be permitted to postpone their period of military training until the conclusion of their course of study.—Mr. ERNEST BROWN replied: The students entering colleges in 1939 who will be permitted to postpone their period of military training include in addition to university students full-time students at medical faculties and schools, dental schools, training colleges for teachers, agricultural colleges, veterinary colleges, technical colleges, schools of art and schools of architecture. Applications from students at other colleges will be referred if necessary to the Military Training (Hardship) Committees.

Mr. GRAHAM WHITE asked the Secretary of State for War if university students beginning a period of military training at the end of the university year would be given reasonable facilities during their training to enable them to apply for posts which might be available on completion of their training.—Sir VICTOR WARRENDER, financial secretary to the War Office, replied: All militiamen will be given due consideration in this respect.

Civil Nursing Reserve

Mr. BROOKE asked the Minister of Health whether he was aware that volunteers for the Civil Nursing Reserve who sent in their application forms to Romney House as directed were liable to be left for many weeks without receiving any communication whatever in reply; and whether he would secure that in the future all volunteers for this service received, at any rate, an early formal acknowledgment of the receipt of their application, with a promise that they would be sent a further communication when their application had been examined.—Mr. ELLIOT replied: I am informed by the Central Emergency Committee for the nursing profession that all applications are sent within 48 hours of receipt to their local representatives to arrange the necessary interviews. In some places there may have been a little delay in getting into touch with the candidates, but every effort is made to avoid this and in London alone some 2000 candidates have been interviewed and accepted for training during the last month. I am asking the committee to consider issuing acknowledgements as suggested by my hon. friend.

Protection against Liquid Vesicants

Mr. DAY asked the Lord Privy Seal what provisions had been made by the Government by which members of the civilian population would be able to protect themselves against vesicants in liquid form in the case of air-raids; and whether it was proposed to issue protective clothing to the civilian population at public expense.—Sir JOHN ANDERSON replied: It is not proposed to issue protective clothing to the civilian population at the public expense. Members of the public need run little risk of coming into contact with vesicants in liquid form if they take cover when an air-raid warning is given and do not emerge, if gas has been used, until the air-raid wardens have either signalled that the particular area is clear or have indicated which parts of it are contaminated.

Medical Needs of Unemployed Persons

Mr. LEONARD asked the Minister of Labour if he had considered the representation made by the county councils of Scotland, urging that the medical needs of persons receiving aid from the Unemployment Assistance Board be borne by the Board; and if he would take steps to gain such powers.—Mr. ERNEST BROWN replied: I have seen a copy of a circular letter on this subject from the Association of County Councils in Scotland to all members of Parliament for Scottish constituencies. The question raised would obviously affect a wider area. The present arrangements were deliberately adopted by Parliament and I know of no good reason for altering them.

Mr. LEONARD: Has the Minister not considered the great amount of work falling upon local authorities in various parts of the country, and does he not think that ought to receive some recognition?—Mr. BROWN: To do what is asked would in many cases involve a duplication of medical services. This is a highly specialised service and that was one of the factors taken into account in coming to a decision.

Special Nourishment Allowances

Mr. GALLACHER asked the Minister of Health whether he was aware that serious delays often occurred in the granting of special nourishment allowances by the Unemployment Assistance Board, after the production of a doctor's certificate, owing to the practice of Boards sending applicants to local authorities for milk or other items of diet; and what steps he was taking to see that the cost of extra nourishment for Unemployment Assistance Board applicants and their dependants was borne by the Unemployment Assistance Board and not by local authorities, and was the same practice followed in recommendations for extra nourishment in connexion with maternity needs.—Mr. ELLIOT replied: I am not aware of any serious delays as suggested by the hon. member, but if he will send me particulars I shall be glad to look into any cases he may have in mind. With regard to the second part of the question, where extra nourishment is given generally by a local authority under its public health powers as part of treatment, there would not appear to be any justification for excluding the Board's applicants from the scope of the service.

Motor Vehicles and the Noise Nuisance

Wing-Commander JAMES asked the Minister of Trans port what steps he was taking to deal with motor vehicles and motor-cycles now upon the roads equipped with inadequate silencers; and what further steps he was taking to check this continuing nuisance.—Captain WALLACE replied: As a result of discussions following the report of the departmental committee on noise in the operation of mechanically propelled vehicles, the manufacturers of motor-cycles undertook in 1936 that no motor-cycle producing an offensive degree of noise would in future be put on the market. A similar undertaking was given by the manufacturers of motor-cars. Such an arrangement seems to me preferable to the making of regulations imposing a precise maximum limit of noise which it would in any case be impracticable to enforce without the use of a large number of delicate noise-measuring instruments. The police can take action with regard to inadequate silencers; more than 10,000 noise offences were dealt with by them during 1937, over 6000 of them by prosecution. Arrangements have also been made with the manufacturers of motor horns with a view to the elimination of the more noisy types.

Port Health Authorities

Mr. BEN SMITH asked the Minister of Health what arrangements existed for consultation and coöperation among port health authorities.—Mr. ELLIOT replied: The principal port health authorities in England and Wales are members of the Association of Port Health Authorities of the British Isles. The association meets twice a year, and has a general committee and a medical committee which meet at more frequent intervals. Special

committees are also from time to time appointed to deal with urgent or specially technical questions.

Foreign Hides and Anthrax

Mr. THORNE asked the Home Secretary whether foreign hides imported were required to be registered on entering this country; if he was aware that a man working at Messrs. Waring, Warrington, died after contracting anthrax from skins that he had been handling which were known as water-buffalo but their source could not be given; and if he intended taking any action in the matter.—Mr. PEAKE, under-secretary, Home Office, replied: I presume the hon. member is referring to the case of a woman named Lydia Clive. I understand that she had shortly before contracting the disease been handling hides of various kinds, including water-buffalo hide from Siam. It is recognised that hides from numerous parts of the world are often infected, and my right hon. friend is advised that there would be no practical advantage from the point of view of preventing the disease in establishing the precise origin of each consignment of hides imported into the country.

Sanatorium Waiting-list

Mr. GALLACHER asked the Minister of Health the total number of patients receiving treatment for tuberculosis at the last convenient date and the number of persons who had been awaiting treatment for more than 10 days on that date from local authorities in England and Wales.—Mr. ELLIOT replied: The number of patients who, on the 1st April, 1939, were receiving treatment in residential institutions under the arrangements made by local authorities in England and Wales for the institutional treatment of tuberculosis was 27,676, and the number of persons who had been awaiting such treatment for more than 10 days was 1772.

Rheumatism in Children

Mr. JAMES GRIFFITHS asked the Parliamentary Secretary to the Board of Education whether there had been any increase in recent years in the incidence of rheumatism among school-children; whether such increase was pronounced in any parts of Wales; and whether any special attention was being given to the problem.—Mr. KENNETH LINDSAY replied: There does not appear to be any reliable statistical evidence of an increase in the incidence of rheumatism in school-children either in England or in Wales. Owing to the difficulty of diagnosis the returns of School Medical Officers vary considerably from one area to another. The percentages of children with organic heart disease, which is in the main due to rheumatism, are higher in Wales than in England, but have remained practically stationary during the last four years, and there is no evidence of an increase in mortality due to this cause. I am glad to say that, following the pioneer example in Wales of Cardiff, some other authorities in Wales are providing special hospital schools for rheumatic children, and supervisory rheumatic centres. Provision of this kind is very desirable.

Sale of Drugs

Mr. GARRO-JONES asked the Minister of Health whether his attention had been drawn to complaints in various Dominion government publications to the effect that their control over the sale of harmful or worthless drugs was hampered by the ineffective state of the law on this subject in Britain; and whether in his consideration of measures to deal with this evil he would undertake to include consideration of the more effective measures now in force in Canada, Australia, South Africa, and the United States of America.—Mr. ELLIOT replied: The answer to the first part of the question is in the negative and to the second part is in the affirmative.

Offence against Dentists Act

Mr. PARKER asked the Home Secretary if his attention had been called to the case of Mr. A. E. Browne, 33, Harrow Road, Gidea Park, Romford, who was imprisoned when convicted by the Stratford police-court of an offence against the Dentists Act, 1921; and, as he was not allowed the time to pay the fine applicable to the offence although he wished to find the necessary money, would he consider remitting the sentence.—Sir SAMUEL HOARE replied: The hon. member has been good enough to send to me particulars of this case. I have caused inquiries to be made and am informed that the defendant pleaded guilty and had been twice previously convicted of similar offences. The justices took a very serious view of the case and, in the exercise of their discretion, refused to allow time for the payment of the fine. I regret that, having reviewed all the circumstances of the case, I can find no grounds which would justify me in advising any interference.

RESEARCH IN STOCKHOLM

Another link in the chain of special institutes which is being established in connexion with the University of Stockholm, an institute for biological research, was recently opened by the Crown Prince of Sweden. The institute has been made possible largely through a generous grant from a fund established by the Swedish industrialist Axel Wenner-Gren, whose name it bears. Its purpose is research into the basic features of the physiology of the cells and tissues. It comprises five departments—cellular physiology, evolutionary physiology and heredity, physiological chemistry, metabolic research, and biophysics. The department for metabolic research will mainly study diabetes. The institute will maintain constant contact with both medical and industrial institutions, so as to contribute directly to the improvement of working conditions. Experiments are now being made in yeast cultivation, which are supported by the Swedish yeast factories, and the National Association for Combating Tuberculosis is financing investigations into the factors affecting the growth of the tubercle bacillus.

The committee appointed to plan the distribution of the fund of £258,000 which King Gustav V of Sweden received as an 80th birthday gift from the Swedish people has now submitted its proposals. The King has expressed a wish that the fund should be applied to investigations into disabling diseases, especially infantile paralysis and rheumatism. It is proposed that the money should be divided into a research fund, an institute fund and a reserve fund, research into the origin of the diseases in question being the main purpose. Allocations will be made to enable research workers to devote their whole time to the work and to make visits abroad. During 1940–44 maintenance grants will be made to Prof. Svedberg, Prof. Arne Tiselius and Dr. S. Gard for an investigation into the virus of infantile paralysis. The institute fund will contribute to the erection, equipment and maintenance of an institute for research in disabling diseases, which will collaborate with a projected rheumatism department at the Caroline Hospital in Stockholm.

THE LANCET 100 YEARS AGO

June 22, 1839, *p.* 460.

From a note on the nervous system, by Dr. C. W. B. Lane.

Thus, we have two distinct nervous systems in the animal frame. How are they combined? How is the unity of the body constituted? I believe that there is a communicating system of nerves, which we may denominate sympathetic, by which connection is established between organic and animal life. . . . Under the present system we attribute the locality of pain in disease to the affected organ itself, though no sentient nerves can be traced in its structure. Why should we attribute to a living solid in a state of disease a property of which there is not a trace in a state of health? The sensation arising from disease frequently is not even confined to its vicinity; for example, in hepatic and renal affections. Again, in complaints of the internal organs, how exquisitely tender an adjoining surface may become, though no degree of compression is exerted which could produce physical effect on the diseased organ. Search through the vast range of morbid states, and in the above simple theory will be found some elucidation of the mystery yclept sympathy, which has ever engaged the attention of medical philosophers.

OBITUARY

JOHN BAKER

KT., M.D., C.M. ABERD.

Sir John Baker died on June 13 at the age of 77 after a few weeks of illness. He had retired nearly twenty years ago from the public service to which he had devoted his life. Born in 1861 and educated at Marischal College he graduated in medicine at Aberdeen University in 1883, and in the same year became assistant medical officer at the Royal Asylum, Dundee. In September, 1886, he was appointed to a similar post at Broadmoor criminal lunatic asylum. In March, 1888, he was transferred to H.M. prison service and served at Portsmouth and Portland convict prisons and also at Pentonville prison. In 1898 he was made secretary to the departmental committee on prison dietaries and in the following year returned to Broadmoor as deputy medical superintendent. In 1910 he succeeded Richard Brayn as superintendent and remained in that office until his retirement in 1920. Before the opening of Rampton criminal lunatic asylum, with W. C. Sullivan in charge, Baker advised the Home Office about its planning and administration, and he was the accounting officer for Rampton as well as Broadmoor until the former was transferred to the Board of Control. During the late war he was in charge of insane German prisoners of war at the Crowthorne War Hospital with the hon. rank of major, R.A.M.C. His work at Broadmoor during this time was extremely onerous owing to the type of patient and the unavoidable reduction of personnel. He was, however, ably assisted by Dr. H. P. Foulerton (who later became medical superintendent) and by his old friend James Scott, formerly medical officer of Brixton prison and later governor of Holloway, who interrupted his retirement for the purpose. "There is no doubt," writes W. N. E., "that the difficulties of administration and the many anxieties inseparable from the management of such an institution during the war hastened his retirement at the age of 58, for like many reserved men he felt things deeply. He was somewhat conservative in his professional outlook, but he introduced into the lives of the patients the improvements which were possible at the time and was always deeply interested in the welfare and happiness of the patients and staff. The years of his greatest experience were unfortunately hampered by the exigencies of the war period when innovations were necessarily restricted. He was a trusted and respected friend of the patients and was held in affectionate regard by the staff; they recognised him to be an able administrator and admired and respected his great ability, distinguished service and uniform success." In 1919 his services to the state were recognised by a knighthood.

Baker was for some years a Home Office expert in lunacy and took part in the statutory inquiries on convicted murderers under section 2 (4) of the Criminal Lunatics Act 1884. He contributed to the *Journal of Mental Science* articles on insanity in English local prisons, on epilepsy and crime, on female criminal lunatics and on general paralysis and crime. He also wrote (1892) articles—which are still of interest—on kleptomania and pyromania in Hack Tuke's "Dictionary of Psychological Medicine." In 1901 he found that the majority of epileptics of either sex received into Broadmoor had committed homicidal offences as distinct from other offences against the person and offences against property. He stated that the brain-weights of homicidal female lunatics were below the normal standard of sane women and the brain-weights of lunatic criminals—the thieves and fire-raisers—were still lower. He also found among the Broadmoor patients suffering from general paralysis of the insane that the majority had committed offences against property, about one-fourth of the total had committed crimes of violence, and less than 7 per cent. had committed sexual offences. This finding was instructive as at that time it was suggested that sexual offences were typical of the general paralytic. It is unfortunate that in later years administrative obligations prevented him from further publishing the results of his wide knowledge and experience.

Sir John Baker was unmarried. He was a genial host, a staunch friend and interesting companion. He had few interests outside his professional work and no hobbies; but he enjoyed a game of bridge or golf until failing health deprived him of the zest for play. After his retirement he lived for some years at Southsea and then moved to Camberley, near to the institution in which he had worked for so long.

DAVID WATERS SUTHERLAND

C.I.E., M.D. EDIN., F.R.C.P., F.R.S.E., I.M.S.

Colonel Sutherland, formerly professor of medicine and principal of King Edward Medical College, Lahore, died at Belhaven, Dunbar, on April 19 at the age of 68. He was an Australian by birth and was born at Byninyong, Victoria, and educated at the grammar school at Creswick, Victoria, and at Melbourne University. From there he went to Edinburgh, where he took first-class honours in his M.B. in 1893. He joined the Indian Medical Service soon after qualification and saw active service in the Chitral campaign in 1895, being mentioned in despatches. In 1897 he was appointed to the chair of pathology at the medical college of Lahore and five years later became professor of medicine. He was a lucid and interesting teacher, and as dean of the medical faculty of Punjab University earned the confidence and respect of his students by his sympathy and strict sense of justice. Apart from his teaching he was from 1907 to 1920 medical superintendent of Mayo Hospital, Lahore, where he built up a large consulting practice. There was always more demand for his services than he could possibly meet and he came to be regarded as one of the leading physicians of northern India. His generosity and hospitality were unstinted and he made many friends throughout the Punjab. During the late war he was appointed hon. surgeon to the Viceroy and he acted as staff surgeon at divisional headquarters, receiving the C.I.E. for his services. In 1919 he was consulting physician to the Afghan Field Force. He retired from his chair at Lahore in 1926.

Colonel Sutherland married Princess Bamba, daughter of the Maharaja Duleep Singh, who survives him. They had no children.

WILLIAM HENRY NEALE

M.D. LOND., F.R.G.S.

Dr. William Neale, who died on June 16 aged 81, was born in Java, the son of Dr. Richard Neale who had a large general practice in St. John's Wood and compiled that remarkable work "The Medical Digest." William Neale qualified from University College Hospital in 1879 and when he was house-physician the arctic explorer, Benjamin Leigh Smith, was admitted

under his care for a carriage accident. Neale had always been fond of the sea and he was a member, while still a student, of the volunteer naval reserve. Mr. Leigh Smith was glad to secure his services as surgeon to the expedition he was planning, and in the winter of 1880–81 Neale went with the *Eira* on a second exploration. The steam yacht was crushed by an iceberg and sank, and the whole crew lived through many months on the ice, under the modest shelter of huts constructed from sails and timber saved from the wreck. During the whole of this time they lived on fish and on wild fowl which they shot. Eventually they were brought home by a search party. Not one of the crew had scurvy or any other illness. Neale related this experience to the Royal Medico-Chirurgical Society and told the Zoological Society of London about the natural history of Franz Josef Land.

On returning home he took the London M.D. and settled down in practice with his father, and later with two partners, carrying on this practice to the very evening of his death. A near contemporary writes of him: "Brought up in the atmosphere of general practice, and with great ability and good judgment, he was an able and resourceful practitioner and was greatly beloved by a very large circle of patients. In fact all his patients were his friends."

Whilst seemingly in his usual health on June 16, Dr. Neale went out in the late evening, as was his wont, to post a letter; he collapsed and was found dead in the street only a hundred yards from his home. He leaves one daughter.

MEDICAL NEWS

University of Oxford

The rector and fellows of Exeter College invite applications for a Staines medical fellowship for research at Oxford in one of the medical sciences. It is tenable for not more than five years, and the annual stipend will be £400 with allowances. Particulars will be found in our advertisement columns.

University of Cambridge

At recent examinations the following candidates were successful:—

THIRD EXAMINATION FOR M.B., B.CHIR.

Part I, Surgery, Midwifery, and Gynæcology.—G. N. Allen-Williams, P. T. Anderson, L. B. G. Bennett, J. B. Bramwell, M. M. Bull, J. A. Campbell, B. E. Camus, J. L. Cardwell, J. A. Cosh, K. M. Cossens, P. J. R. Davis, H. P. Dick, J. E. G. Earle, W. J. G. Evans, I. S. Eve, G. R. Faber, E. L. Fawssett, M. Feachem, P. G. H. Gell, G. S. Gladstone, G. D. Graham, B. G. Gretton-Watson, L. N. Grunbaum, A. Hargreaves, S. L. Hetherington, B. L. F. Heydon, J. M. Holford, R. M. Howitt, K. G. Irving, P. W. Isaac, G. H. P. John, H. Kalmanoff, N. S. Kenchington, E. J. C. Kendall, R. D. Kennedy, W. N. Kenrick, W. H. Kirkaldy Willis, J. A. Lorimer, A. C. Mackay, P. D. MacLellan, T. K. Maurice, J. M. Mennell, K. J. Merris, E. P. Morley, J. Murray, G. Oppenheimer, B. F. Parker-Wood, H. G. Percy, L. C. Petersen, T. J. A. Phillips, M. R. Pollock, A. M. Stevens, J. F. Thompson, R. C. Tufton, F. H. Tyrer, C. H. C. Upjohn, J. S. H. Wade, and R. J. T. Woodland.

University of Liverpool

Mr. Owen Herbert Williams has been appointed professor of surgery as from Oct. 1 in succession to Sir Robert Kelly.

Mr. Herbert Williams graduated in 1906 at Edinburgh and was resident medical officer at the Leith Public Health Hospital. He took his Edinburgh surgical fellowship in 1909, and a D.P.H. in 1911. At Liverpool he became senior resident medical officer, and later surgeon, at the Mill Road Infirmary, and was appointed to the honorary staff of the Royal Southern Hospital. During the late war he served in France with a field ambulance and as surgical specialist at the 51st Casualty Clearing Station, holding a major's commission. He took the F.R.C.S. in 1923, and became lecturer in clinical surgery in the university. He is at present surgeon to the Royal Liverpool United Hospital and the Liverpool Radium Institute, and lecturer in operative surgery. His publications cover a wide range of surgical subjects.

University of Glasgow

Mr. Charles Frederick William Illingworth has been appointed regius professor of surgery in place of Prof. Archibald Young, whose tenure of office expires on Sept. 30.

Mr. Illingworth, who is 40 years of age and comes from Halifax, served as a pilot in the Royal Flying Corps and Royal Air Force from 1917 to 1919. He graduated at Edinburgh in 1922 and after house appointments there and elsewhere returned as clinical tutor at the Royal Infirmary. He became F.R.C.S.E. in 1925 and in the same year collaborated with the late Sir David Wilkie in a study of cholecystography. Still working at the Royal Infirmary and in the department of experimental surgery he was appointed a part-time worker under the Medical Research Council, and with R. D. Mackenzie investigated the Rous sarcoma No. 1. He was also granted a surgical scholarship by the Association of Surgeons and published observations on gall-bladder disease, receiving a gold medal for his M.D. thesis. He was appointed to the surgical staff of the Edinburgh Western General Hospital and the Edinburgh City Hospital, and in 1932 became university lecturer in clinical surgery. In the same year he produced, with B. M. Dick, their "Textbook of Surgical Pathology," and in 1938 he published "A Short Textbook of Surgery." Our issue of May 6 contained a paper from him on hæmorrhage in jaundice.

Royal College of Surgeons of England

At the recent primary examination for the fellowship of the college the following candidates were successful:—

L. H. Aitken, M.B. N.Z., Middlesex; Gwladys V. S. Aldridge, Univ. Coll.; M. Arnold, M.B. Witwatersrand, Middlesex; M. Bates, St. Bart's; W. M. Beattie, M.B. Camb., Lpool; B. E. Blair, M.B. Lond., St. Thos.; R. V. Blaubaum, M.B. Melb., Univ. Coll. and Middlesex; K. E. Bond, M.B. Camb., St. Thos.; R. N. Briggs, Univ. Coll.; D. B. Brown, M.B. Glasg., Middlesex; Annette G. Cade, Univ. Coll.; H. L. Catchlove, M.B., B.S. Melb., Middlesex; S. Chatterjee, M.B. Calcutta, Univ. Coll. and Middlesex; R. A. Christianson, M.D. Western Ontario, Middlesex and Univ. Coll.; A. F. Clift, M.R.C.S., Middlesex and London Hosp.; D. D. Cranna, M.B. Manc.; H. A. Daniels, M.B. Dubl., Univ. Coll. and Middlesex; O. B. Dickinson, M.D. Queen's Univ., Ontario; H. D. Drury, M.B. Melb., Middlesex; J. A. C. Edwards, M.B. Lond., St. Bart's; M. R. Ewing, M.B. Edin.; Nora F. M. Falk, Manc.; R. M. Fawzi, M.B. Cairo, London Hosp.; P. A. M. FitzGerald, M.B. N.U.I., Dublin; H. B. Gatenby, M.B. Sydney, Middlesex; A. Gild, M.B. Adelaide, Durham; J. E. Gray, M.B. Durh.; S. G. Griffin, M.B. Lpool; G. J. Hanly, M.B. N.U.I., Dublin; H. A. Haxton, M.B. St. And., Middlesex; W. G. Hendry, M.B. Aberd., Middlesex; L. Henry, M.D. Lpool; I. M. Hill, St. Bart's and Middlesex; C. Hollenberg, M.D. Manitoba, Univ. Coll.; N. C. Hughes, M.B. Belf.; K. F. Hulbert, M.B. Lond., Middlesex; I. Jacobson, M.B. Cape Town, Middlesex; G. B. Jones, M.B. Lond., Univ. Coll.; T. L. Kennedy, London Hosp.; P. H. Lenton, M.B. Camb., Middlesex; H. R. W. Lunt, M.B. Lpool; R. J. B. McEwen, M.B. Sydney, Univ. Coll., Middlesex and Lpool; A. M. Mair, M.B. Aberd., St. Mary's; M. A. Margo, M.R.C.S., Univ. Coll.; J. P. Mitchell, Middlesex; C. T. Moller, M.B. Witwatersrand, Middlesex and Univ. Coll.; D. L. Mollin, Cardiff and Middlesex; D. Narayan, M.B. Lucknow, Univ. Coll. and London Hosp.; J. D. Ogilvie, M.B. Lond., St. Bart's; H. Petty, Leeds; F. P. Raper, M.B. Leeds, Middlesex; H. Rees, B.M. Oxfd, Univ. Coll.; D. J. Robertson, St. Bart's and Univ. Coll.; T. F. Rose, M.B. Sydney, Middlesex; P. B. Ryan, M.B. Brist.; N. C. Shah, M.B. Bombay, Univ. Coll.; D. C. Sinclair, M.B. St. And., Middlesex; M. R. Sinclair, M.B. Camb., St. Bart's and St. Mary's; J. W. Spence, M.B. Sydney, Middlesex; W. E. Springford, M.B. Lond., King's Coll. and Charing Cross; M. J. L. Stening, M.B. Sydney, Middlesex; H. D. Sutherland, M.B. Adelaide, Middlesex; C. H. Tanner, M.B. Lond., Cardiff; I. J. Thomas, London Hosp.; E. Troensegaard-Hansen, M.R.C.S., Univ. Coll. and Middlesex; A. A. Wearn, M.B. Sydney, Middlesex; R. W. White, Middlesex; and R. Wilson, M.D. McGill, Univ. Coll.

British Journal of Physical Medicine

This journal has been purchased from the Actinic Press by Butterworth and Co. (Publishers), Ltd., and will be published by them from 3, Bell Yard, London, W.C.2. Dr. R. King Brown and Mr. B. D. H. Watters, M.Sc., will remain medical and science editors respectively, and Dr. A. Clark will remain managing editor.

Milk for Mothers and Young Children

The Scottish Milk Marketing Board has introduced a scheme for supplying to local authorities, at a reduced price, the milk needed for nursing and expectant mothers, and children under the age of five. The aim is to provide one pint of milk free, or at a reduced price not exceeding 2*d*. per pint, to those coming within the income limits adopted by the authority for the purpose. The Department of Health for Scotland have suggested that the application of a general medical test should not be a necessary preliminary to the normal supply of one pint of milk per day. They have approved the proposals of Glasgow corporation, which are the first to be submitted under the scheme.

Welsh National School of Medicine

A committee of former students of the medical school at Cardiff is organising a London Welsh Medical Dinner which will be held at Grosvenor House, London, W.1, on Saturday, Oct. 14, at 8 P.M. The hon. secretary is Mr. A. L. Gunn, 51, Harley Street, W.1.

Medical Department, Admiralty

This department will move next week to Queen's House, 64, St. James's Street, London, S.W.1. It is desired that during the week of removal correspondence should be reduced to a minimum. The new telephone number will be Regent 7481.

St. John's Hospital Dermatological Society

Prof. G. Grey Turner will deliver the sixth Prosser White annual oration of this society at 5 P.M. on June 28 at the Royal Society of Medicine, 1, Wimpole Street, W.1. His subject is malignant melanomata.

Papworth Village Settlement

The annual meeting of this settlement, which was announced for June 30, has been postponed. It will be held at the Park Lane Hotel, Piccadilly, London, W.1, at 3.15 P.M., on Tuesday, July 4, and the Duke of Kent will preside.

A Russian Pharmacopœia

A new Pharmacopœia of the U.S.S.R. is being compiled by a committee appointed by the commissariat of health meeting under the chairmanship of Prof. Bergholtz. The last pharmacopœia was published in 1924; the new one will be issued in 1941.

Service Prizes

The Alexander memorial prize for 1938 has been awarded to Major H. J. Bensted, M.C., R.A.M.C. It consists of a gold medal and a sum of £40, and is awarded annually to an officer of the Royal Army Medical Corps for professional work of outstanding merit. The Leishman memorial prize, also given for work of outstanding merit, and consisting of a silver medal and £30, goes to Major David Fettes, O.B.E., F.R.C.S.E., R.A.M.C.

Dr. Thomas Simpson, medical officer in Nigeria, has been awarded the North Persian Forces memorial medal for 1938, for his paper entitled Yaws and its Treatment in the Bamenda Division of the Cameroons under British Mandate (*West Afr. med. J.* 1938, **10**, 10). This medal is given for the best published paper on tropical medicine or hygiene by a medical officer, of under twelve years' service, of the Royal Navy, Royal Army Medical Corps, Royal Air Force, Indian Medical Service, or Colonial Medical Services.

Mental Hygiene Congress

The sixth congress of the European Committee for Mental Hygiene was held at Lugano, Switzerland, from June 4 to 6, under the presidency of Dr. A. Repond of Switzerland. The delegates included Sir Laurence Brock, chairman of the Board of Control, and Sir Hubert Bond, the senior commissioner, representing the British Government, and Dr. Doris Odlum, representing the National Council for Mental Hygiene. The subject of discussion was "Mutual Understanding and Mental Hygiene," and among the papers read was one on primitive civilisation and mutual understanding by Dr. Emanuel Miller and one on mutual understanding between human groups and between peoples by Dr. G. R. Hargreaves.

The congress ended with a discussion on the immediate tasks of mental hygiene in Europe. Dr. Doris Odlum proposed that the committee should make a survey of the various aspects of mental hygiene in all the European countries, as the information would be of the utmost value both to those who were more advanced and those who were more backward in this field. She also proposed that the question of establishing an international nomenclature of mental disorders should be pressed by the European committee, for this was one of the essential bases of scientific investigation in relation to mental health.

The members of the congress were entertained to a banquet, and an evening party was held on the Lake of Lugano by the Swiss committee for mental hygiene, and by the town of Lugano. In all 14 countries were represented, and the total attendance was over 80. Before the congress opened a business meeting was held at which a constitution for the European Committee for Mental Hygiene was formulated. Prof. Auguste Ley of Brussels was elected president and Dr. H. Bersot of Le Landerson, Switzerland, hon. secretary and treasurer of the committee. After the congress invitations were received from Sweden and Holland, and it is hoped that the next congress will be held in one of these countries in June, 1940.

Medical Diary

June 26 to July 1

SOCIETIES

ROYAL SOCIETY OF MEDICINE, 1, Wimpole Street, W.1.
SATURDAY.
Orthopædics. 3 P.M. (St. Vincent's Orthopædic Hospital, Pinner), demonstration of cases.

BIOCHEMICAL SOCIETY.
SATURDAY.—3 P.M. (at National Institute for Research in Dairying, Shinfield, near Reading), communications and demonstrations.

ASSOCIATION OF CLINICAL PATHOLOGISTS.
SATURDAY.—9.30 A.M. (at Coventry Joint Laboratory, Stoney Stanton Road, Coventry), meeting on the Clinical Pathology of Tuberculosis. Dr. S. Roodhouse Gloyne: Routine testing of milk for tubercle bacilli. Dr. Herta Schwabacher: Tests for differentiating saprophytic acid-fast bacteria from tubercle bacilli. Dr. E. N. Davey: Relative merits of culture and guineapig tests in the diagnosis of tuberculosis. Dr. C. E. Dukes: Excretion and identification of tubercle bacilli in urinary tuberculosis. Dr. W. Pagel: The growth-retarding power of the blood-serum towards the tubercle bacillus, and the chronic type of disseminated tuberculosis. Dr. A. F. Sladden: Association of silicosis and tuberculosis.

LECTURES, ADDRESSES, DEMONSTRATIONS, &c.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Road, W.12.
MONDAY.—4.30 P.M., Dr. R. C. Wingfield: Pulmonary Tuberculosis.
TUESDAY.—4.30 P.M., Sir Arthur Hall: Meningitis and Acute Infections of the Central Nervous System.
WEDNESDAY.—NOON, clinical and pathological conference (medical). 2 P.M., Dr. J. D. MacLennan: Bacteriological Diagnosis of Intestinal Infection: (II) Dysentery, Cholera, and other Infections. 3 P.M., clinical and pathological conference (surgical).
THURSDAY.—2.15 P.M., Dr. Duncan White: radiological demonstration. 3.30 P.M., Prof. Vernon Mottram: Maternal Nutrition and the Prenatal Child.
FRIDAY.—2 P.M., clinical and pathological conference (obstetrics and gynæcology). 2.30 P.M., Mr. J. B. Hume: Hernia and its Treatment.
Daily, 10 A.M. to 4 P.M., medical clinics, surgical clinics and operations, obstetrical and gynæcological clinics and operations.

ST. GEORGE'S HOSPITAL, S.W.1.
THURSDAY.—5 P.M., Dr. Anthony Feiling: neurological demonstration.

HOSPITAL FOR SICK CHILDREN, Great Ormond Street, W.C.1.
THURSDAY.—2 P.M., Mr. Denis Browne: The Acute Abdomen in Children. 3 P.M., **Dr. Ian Cathie:** The Collection of Pathological Specimens.
Outpatient clinics daily at 10 A.M. and ward visits at 2 P.M.

ST. JOHN'S HOSPITAL DERMATOLOGICAL SOCIETY, 5, Lisle Street, Leicester Square, W.C.2.
WEDNESDAY.—5 P.M. (at the Royal Society of Medicine, 1, Wimpole Street, W.1), Prof. Grey Turner: Malignant Melanoma. (Prosser White oration.)

FELLOWSHIP OF MEDICINE AND POST-GRADUATE MEDICAL ASSOCIATION, 1, Wimpole Street, W.1.
MONDAY to FRIDAY.—ST. MARK'S HOSPITAL, E.C.1, all-day course in proctology.—HOSPITAL FOR DISEASES OF THE SKIN, Blackfriars, E.C.4, afternoon course in dermatology.

SHEFFIELD UNIVERSITY.
MONDAY.—10 A.M., Dr. C. G. Imrie: Diabetes and its Complications. 2 P.M., Prof. E. F. Finch: The Acute Abdomen.
TUESDAY.—10 A.M., Dr. E. F. Skinner: Psychology in General Practice (I). 11.30 A.M., Mr. R. St. L. Brockman: demonstration of casualty cases. 2 P.M., Mr. W. J. Lytle and Mr. J. C. Anderson: Rectal Diseases.
WEDNESDAY.—10 A.M., Dr. R. Platt: Nephritis and Allied Diseases. 2 P.M., Mr. Glyn Davies: Vulvo-vaginal Abnormalities. 3.30 P.M., Mr. F. W. Holdsworth: Fractures.
THURSDAY.—10 A.M., Mr. H. B. Yates: demonstration of local anæsthesia. 11.30 A.M., Dr. J. L. A. Grout: Radiology. 2 P.M., Mr. W. Hynes: Acute Pyogenic Infections. 3.30 P.M., Mr. A. W. Fawcett: Pyogenic Infections of the Hand.
FRIDAY.—2 P.M., Prof. G. L. Roberts: Diseases of the Mouth and Tongue. 3.30 P.M., Dr. F. Ellis: Same Subject.
SATURDAY.—10 A.M., Dr. A. G. Yates: Neurology. 11.30 A.M., Dr. E. F. Skinner: Psychology in General Practice (II).

Appointments

ARTHURE, H. G. E., F.R.C.S., M.R.C.O.G., obstetric surgeon to outpatients, Queen Charlotte's Maternity Hospital.
CHANOCK, LEON, F.R.C.S., resident surgical officer at the Gordon Hospital, S.W.1.
DINGLE, W. T., M.D. Manc., junior assistant medical officer, North Middlesex County Hospital.
DOBBS, R. H., M.B., M.R.C.P. Lond., assistant physician to the children's department, City of London Maternity Hospital.
HEPBURN, N. S., M.B. Edin., resident medical officer at the Park Hospital, Davyhulme.
MCDONAGH, V. P., M.B. Edin., D.P.H., assistant medical officer of health and resident medical officer at the Isolation Hospital, Norwich.
*MELLERSH, MARY D., M.B. Lond., D.R.C.O.G., resident assistant obstetric officer at the Crumpsall Hospital.
SKEOCH, H. H., Ch.M. Sydney, F.R.C.S., visiting ophthalmic surgeon, Redhill County Hospital, Edgware.
SMITH, A. F., B.M. Oxfd, research student in the department of clinical medicine, Oxford University.
TAYLOR, R. A. R., M.B. Glasg., assistant medical officer, North Middlesex County Hospital.

Central Middlesex County Hospital:—
BONIN, J. M., M.B. Adelaide, junior resident assistant medical officer;
HUMPHREYS, SYBIL M., M.B. Lond., assistant medical officer (anæsthetist);
MACVINE, S. S., F.R.C.S.E., M.R.C.O.G., obstetrician (grade I);
PAGEL, WALTER, M.D. Berlin, assistant pathologist; and
RUGG-GUNN, ANDREW, F.R.C.S., visiting ophthalmologist.

London County Council.—The following appointments and transfers are announced (A.M.O. (I) or (II) = assistant medical officer class I or class II):—
BARRY, C. T., M.D. Paris, L.R.C.P. & S.E., A.M.O. (II), Highgate Hospital;
WALDEN, MARGHERITA N., M.B. Lond., A.M.O. (II), Norwood Hospital;
BURKE, JEREMIAH, M.B. N.U.I., A.M.O. (II), Paddington Hospital;
HAY, MARGARET A., M.B. Aberd., A.M.O. (II), St. Mary, Islington;
LASKER, THEODORE, M.B. Lpool, assistant district medical officer;
SAMUEL, I. N., M.R.C.S., assistant district medical officer;
GUTHRIE, D. W., F.R.C.S., A.M.O. (I), St. George-in-the-East; and
HARDIE, A. W., M.B. Aberd., A.M.O. (I), Lewisham.

Medical Referee under the Workmen's Compensation Act, 1925: DR. D. S. MURRAY of Stratford-on-Avon, for the County Court District of Evesham (Circuit No. 22), the County Court Districts of Banbury and Shipston-on-Stour (Circuit No. 36), and the County Court Districts of Alcester, Stratford-on-Avon and Warwick (Circuit No. 53).

Vacancies

For further information refer to the advertisement columns

Aberdeen Royal Infirmary.—Asst. M.O. in X-ray and radium depts., £350.
Army Dental Corps.—Commissions.
Ashton-under-Lyne, District Infirmary.—H.S., at rate of £150.
Barbados General Hosp.—Radiologist, £800. Also H.S. and anæsthetist, £450.
Beckenham, Bethlem Hosp., Monks Orchard, Eden Park.—Res. H.P., at rate of £150.
Birmingham, Queen Elizabeth Hosp.—Res. anæsthetist, £70.
Birmingham, The Children's Hosp.—Sen. cas. H.S., at rate of £125.
Birmingham City.—Jun. asst. M.O. for Rubery Hill and Hollymoor Divisions, £350.
Birmingham Maternity Hosp.—Res. M.O. and reg., £200. Also H.S., at rate of £75.
Bradford, Infectious Diseases Hosps.—Med. supt., £850.
Bradford Royal Infirmary.—Res. M.O. and asst. pathologist, £250. Res. surg. O., £250. Also H.P. to radium and skin depts., at rate of £200.
Brighton, Royal Alexandra Hosp. for Sick Children.—H.P., £150.
Bristol City and County.—Asst. M.O.H., £500.
Bristol General Hosp.—Cas. H.S., at rate of £100. Two H.P.'s, three H.S.'s, res. obstet. officer, and H.S. to spec. depts., each at rate of £80.
British Postgraduate Medical School, Ducane Road, W.12.—First asst. in dept. of medicine, £300 to £600. Also H.S. to surgical unit, at rate of £105.
British Red Cross Society Clinic for Rheumatism, Peto Place, N.W.1.—Hon. neurologist.
Cambridge, Addenbrooke's Hosp.—H.S. and H.S. to spec. depts., each at rate of £130.
Cardiff Royal Infirmary.—Res. anæsthetist, at rate of £100.
Chelsea Hosp. for Women, S.W.3.—Anæsthetist, 30 gns.
Chester City Hosp.—Res. M.O., £200.
Chesterfield and North Derbyshire Hosp.—Res. surg. O., £300. Also cas. O. and fracture H.S., at rate of £225.
Croydon County Borough.—Asst. M.O.H., £400.
Dewsbury and District General Infirmary.—Sen. H.S., £200. Also second H.S., £150.
Dudley County Borough.—M.O.H. and school M.O., £900.
Durham County Council.—Res. med. supt. for School Aycliffe Colony, £800.
Eastbourne, Royal Eye Hosp., Pevensey Road.—H.S., at rate of £100 and £175.
Elizabeth Garrett Anderson Hosp., Euston Road, N.W.1.—Hon. first asst. to obstetric dept. Asst. pathologist, £250. Med. reg., £100. Also H.P., first, second and third H.S., and obstetric asst., each at rate of £50.
Gloucester, Barnwood House Hosp. for Mental and Nervous Disorders.—Second asst. M.O., £450.
Gloucestershire Royal Infirmary, &c.—Asst. to radiological dept., £500.
Hartwoodhill Adult Mental Defective Colony, near Shotts, Lanarkshire.—Med. supt., £700.
Hosp. for Consumption and Diseases of the Chest, Brompton, S.W.3.—H.P., at rate of £50.
Hosp. for Tropical Diseases, 25, Gordon Street, W.C.1.—Three H.P.'s, each at rate of £120. Also ophthalmic surgeon.
Hosp. of St. John and St. Elizabeth, 60, Grove End Road, N.W.8.—Res. H.P., at rate of £100.
Huddersfield Royal Infirmary.—H.S. to abnormal maternity dept., at rate of £150.
Hull, Beverley Road Institution.—Asst. M.O., £350.
Ipswich, East Suffolk and Ipswich Hosp.—Radiotherapist, £600.
Keighley and District Victoria Hosp.—First and second res. M.O.'s, at rate of £160 and £120 respectively.
Kent Education Committee.—Dental surgeon, £500.
King Edward Memorial Hosp., Ealing.—Cas. O. and deputy res. M.O., at rate of £225.
Leeds, St. James's Hosp.—Res. surg. O., £350.
Leicester City General Hosp.—Res. M.O., at rate of £300.
Leigh Infirmary, Lancs.—Jun. H.S., at rate of £150.
Lincoln County Hosp.—Jun. H.S., at rate of £150.
Liverpool Hosp. for Consumption and Diseases of the Chest, Mount Pleasant.—Res. M.O., £150.
Liverpool Royal Children's Hosp.—Two res. H.P.'s and two res. H.S.'s for city branch, Myrtle Street, each at rate of £100. Also res. M.O. and res. surg. O. for Heswall branch, each at rate of £120.
Liverpool Sanatorium, Delamere Forest, Frodsham.—Asst. to med. supt., £225.
Liverpool School of Tropical Medicine.—Lecturer in parasitology, £700.
London County Council.—Part-time obstetrician and gynæcologist, £600.
London Homœopathic Hosp., Great Ormond Street, W.C.1.—H.S., at rate of £100.
London Jewish Hosp., Stepney Green, E.1.—Hon. clin. assts.
London Lock Hosp., 283, Harrow Road, W.9.—Surg. reg., £100.
Maida Vale Hosp. for Nervous Diseases, W.9.—Hon. radiologist.
Manchester, Abergele Sanatorium.—Res. asst. M.O., £350.
Manchester, Crumpsall Hosp.—Res. surg. O., £400.
Manchester Royal Children's Hosp., Pendlebury.—Res. H.S., at rate of £100.
Manchester Royal Infirmary.—Radiologist for X-ray diagnostic work, £1000. Also med. reg. to outpatient dept., at rate of £150.
Middlesex County Council.—Various appointments, £650 to £250.
Oldham, Municipal Hosp.—Res. asst. M.O., at rate of £200.
Oxford, Exeter College.—Staines medical research fellowship, £400.
Oxford, Wingfield-Morris Orthopædic Hosp.—Lord Nuffield scholarship in orthopædic surgery, £200. Also res. H.S., at rate of £100 to £120.
Pontefract General Infirmary and Hydes Hosp.—Sen. res. surg. O., at rate of £175 to £200.
Portsmouth, St. James Hosp. for Nervous and Mental Disease, Milton.—Locum tenens asst. M.O., 7 guineas a week.
Preston and County of Lancaster Royal Infirmary.—H.P., £150.
Princess Elizabeth of York Hosp. for Children, Shadwell, E.1.—Cas. O., at rate of £125.
Reading, Royal Berkshire Hosp.—H.S. to spec. depts., at rate of £150.
Romford Isolation Hosp.—Jun. asst. M.O., £250.
Royal Chest Hosp., City Road, E.C.1.—H.P., at rate of £100.
Royal College of Physicians, Pall Mall East, S.W.1.—Asst. Prophit scholar, £250.
Royal College of Surgeons of England.—Examinership.
Royal Naval Medical Service.—Medical officers.
St. Mary's Hosp. for Women and Children, Plaistow, E.13.—Res. H.P., at rate of £150.
St. Thomas's Hosp., S.E.1.—Hon. director of radiotherapy dept. Hon. neuro-surgeon. Also two physicians in charge of outpatients.
Salford City.—Asst. M.O. for V.D. treatment centre, £500.
Sheffield Children's Hosp.—H.P., £100.
Shrewsbury, Royal Salop Infirmary.—Res. H.S., at rate of £160.
Southampton County.—Asst. county M.O., £600.
Victoria Hosp. for Children, Tite Street, Chelsea, S.W.3.—H.P. and H.S., at rate of £100. Also cas. O., at rate of £200.
Walsall General Hosp.—Res. surg. O., £300. Also H.S., £150.
Walthamstow Borough.—Asst. obstet. res. M.O. for Maternity Hosp., £200.
Warlingham Park Hosp., Surrey.—Locum tenens M.O., 7 guineas per week.
West London Hosp., Hammersmith, W.6.—Chief clin. asst. in X-ray (diagnostic) dept., £125.
Windsor, King Edward VII Hosp.—H.S., £120.
Woolwich and District War Memorial Hosp., Shooter's Hill, S.E.18.—Cas. O., at rate of £100.
Worcester Royal Infirmary.—Hon. dermatologist.
Worthing Hosp.—H.S. and H.P., each at rate of £130.
Wrexham and East Denbighshire War Memorial Hosp.—Res. H.S. and res. H.S. to ear, nose and throat and ophth. depts., each at rate of £150.
York County Hosp.—H.S. to eye, ear, nose and throat dept., £150.
York Dispensary.—Res. M.O., £200.
The Chief Inspector of Factories announces a vacancy for an Examining Surgeon under the Factories Act, 1937, at Skegness.

* Subject to confirmation.

NOTES, COMMENTS, AND ABSTRACTS

PLANT GENETICS AND HUMAN WELFARE*

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PROFESSOR OF BOTANY IN THE UNIVERSITY OF LONDON, AT KING'S COLLEGE

Agriculture, which involved the domestication of plants, began very early, perhaps even 10,000 years ago; and with it began selection to improve the type. Such selection was for long unconscious, but there is evidence that even in the early prehistoric civilisations striking progress had been made in the improvement of various food plants.

The most widely used food plants are now wheat, maize and rice. The cultivation of wheat began so early that it seems possible that the hexaploid bread-wheats were never truly wild species but that they originated from chance hybrids of more primitive forms which are known to have been in cultivation, and some of which are cultivated still. Maize appears to have been moulded by man even more than wheat and nothing like it has ever been found in a wild state. Rice, on the other hand, whose culture probably arose in China, required little alteration by man, and various nearly related wild species are found both in Asia and Africa.

Since the development of genetics during the present century, the production of new types of cultivated plants has gone on apace. This applies not only to widely cultivated species such as the cereals, cotton, tobacco, sugar-cane, sugar-beet and a host of others, but also to many wild plants whose cultivation by man is just beginning. Even forest trees are now receiving the attentions of the plant-breeder, with results that are of great economic importance.

The principles of Mendel, rediscovered in 1900, and the subsequent researches on the structure and division of chromosomes and their relation to hereditary processes, have given us a combined weapon for understanding how new forms of plants have been produced in the past, and therefore how they can be experimentally produced or improved in the future.

SELECTION AND CROSSING OF WHEAT

In all the wheats, as in many other plant genera, the chromosomes run in multiples of a fundamental number. Thus the diploid species of wheat (Triticum) have 14 chromosomes, the tetraploid species 28, and the hexaploid species 42. The diploid condition is undoubtedly the most primitive, and from it the species with higher numbers have been derived through later evolution. Hybridisation has taken a considerable part in this evolution, and Percival has brought evidence to show that the nearly related genus Ægilops is also involved in the ancestry of the hexaploid wheats.

The step from tetraploidy, in the *durum* or hard wheats, to the hexaploid bread-wheats can be pictured as taking place through a cross between a diploid and a tetraploid form, one of which probably contained already one set of Ægilops chromosomes. Such a hybrid would be triploid having three sets of chromosomes, and would be sterile. But we know from various other actual cases that such a hybrid will occasionally double its chromosomes. This produces a form which is fertile because all the chromosomes have mates, and it will breed true because the mated chromosomes are alike. We thus have a new species resulting from a brief course of events which began with an interspecific hybridisation. Several wild species are now known to have originated in this way, and many more have been produced artificially in the same way.

When I visited Russia in 1926 I was shown, at the famous plant-breeding station at Saratov on the Volga, hybrids between wheat and rye, some of which have since proved to be of similar character. Rye has only 14 chromosomes, so its hybrids will get seven rye chromosomes. The *vulgare* or bread-wheat will supply 21 chromosomes to a hybrid, so that the wheat-rye hybrid will have 28. Such crosses are sterile, but some doubled their chromosomes to produce a fertile form with 56 chromosomes. Such hybrids, in which the chromosome number has doubled, are known as amphidiploids. This amphidiploid with 56 chromosomes was crossed back to the wheat and thus gave rise to a series of forms showing extreme variation. One of these had better grain than the wheat parent, some showed a marked increase in yield, others had the very hardy qualities of the rye, others were very early, and so on. Similar constant hybrids between wheat and rye have been obtained in the United States, Sweden, Germany and Canada.

More recently, still wider crosses have been produced between wheat and couch-grass, Agropyrum. These hybrids are perennial like the couch-grass. Some of them have doubled their chromosomes, producing a form which the Russians claim is an excellent perennial crop for grass or hay as well as a grain for fodder. Some of the derivatives from another similar cross are frost-resistant, some are drought-resistant, some annual, and some are said to have a greater yield and better quality than wheat. The flour from this source will have a distinctive flavour. Some of these hybrids are also immune to rust and smut, the two most serious diseases of wheat.

These modern intergeneric hybrids, and their selection to produce useful economic types, have only been made possible by the application of genetical methods combined with the microscopic study of the chromosomes. It may be expected that in the future such methods will greatly extend the types of economic plants used by man.

However, the main effort in wheat-breeding in the numerous laboratories devoted to this subject in many countries is confined to the more orthodox methods of improving the *vulgare* wheat itself by producing varieties which have a higher yield, are immune to rust and other diseases, or which mature more rapidly and so escape the frosts of northern latitudes. In Canada the wheat belt has steadily moved northwards for many years, and this has been made possible by the production of varieties which reach maturity in a shorter period after sowing.

BREEDING FOR IMMUNITY

The great enemy of cereal crops is the group of fungi known as rusts. Yellow stem rust of wheat (*Puccinia glumarum*) is the active species in this country, and the success of Biffen, in showing (1) that resistance to it behaves as a Mendelian recessive in inheritance and (2) in producing resistant varieties for the English farmers, is well known. In Canada and Australia the black stem rust, *Puccinia graminis*,

* Abridged from a Chadwick lecture delivered in the Chelsea Physic Garden on June 15.

is mainly concerned, and wheat varieties which are partially resistant to it have been produced. Nevertheless there is probably no such thing as complete immunity, and the problem of breeding for rust-resistance in addition to high yield and other qualities has become very complex.

In Manitoba alone the loss to the wheat crop from stem rust is estimated at £2,650,000 annually during the period from 1916–37. In the eight-year period from 1925–32 the average annual loss from rust in Manitoba and Saskatchewan, two of the three great wheat-producing provinces, was 37,000,000 bushels. The losses to wheat-growers from this source are therefore enormous, and the scientific problem of producing a crop which is resistant to the disease is correspondingly great.

The rust fungus completes part of its life-cycle on the barberry, so barberry bushes have to be eradicated as far as possible wherever wheat is grown. In Canada there is the additional difficulty that the crops are frequently infected by clouds of spores blown by the wind from the somewhat earlier wheat-fields farther south in the United States across the border. The spores have been found in the air by flying aeroplanes with exposed glass slides coated with Vaseline. In this way spores have been shown to be present in the air in summer at an altitude of 2–3 miles. Such spores can of course be carried long distances by the wind. Some two weeks before an infection appears in the field the spores can be found in the atmosphere. Barberry is now practically eradicated from Western Canada, and the summer spores are killed by the low winter temperatures, so that these possible sources of infection are eliminated. Spore-showers are also shown to be highly correlated with the occurrence of south winds, so there is no doubt that the spores from wheat crops further south are the source each year of infection of the Canadian wheat-fields.

VARIATION IN THE ATTACKER

The most difficult aspect of the problem, however, is the multiformity of the fungus itself. There are several different varieties of stem rust which affect different cereals, and wheat stem rust alone is known to contain about 150 different races or biotypes. These were recognised by their various effects on twelve different varieties of wheat. Stakman, of Minnesota, a pioneer in this line of investigation, has recently produced from one cell of the maize smut fungus 162 distinct strains by mutation in artificial culture in a few months.

These physiological forms or biotypes of the fungus differ in their ability to produce infection. A particular variety of wheat may be highly resistant to several forms of the fungus, partially resistant to some and highly susceptible to others. All grades of susceptibility are found to exist. Moreover, a wheat crop which is relatively free from rust in one year may succumb to an epidemic if infected by the spores of a different strain of rust in the next year. A variety which is resistant in one part of the country or in one year may be susceptible under a different attack, and so the complicated battle between the unwelcome fungus and its resisting host goes on.

The nature of the resistance offered by the wheat plant has also been much investigated, as well as the manner of its inheritance. It appears that one gametic difference is responsible for immunity to many forms of a particular fungus but not to all, while certain species of wheat may show group immunity to a number of different fungal parasites. Vavilov finds that each group of plants has developed its natural immunity mainly in particular geographical regions. Thus the wheats from Transcaucasia and the Mediterranean contain the greatest number of resistance genes. In oats, he believes that immunity is concentrated in the Mediterranean group and the Pyrenees. Pears from Eastern Asia and potatoes from Southern Mexico are resistant to fungal attack. Such forms are regarded as resistant to all the strains of a particular fungus. This principle may be important, but it requires verification.

Each year a number of physiological forms of the rust are present in the Canadian wheat-fields, but usually one or two forms predominate. The form which is rare in one year may be the most common in another, and this as well as weather conditions, which may favour or hinder the fungus, accounts for the fact that the losses in some years are much more severe than in others. Thus 1916 and 1923 were disastrous years for the wheat crop.

But this is not all, for Dr. J. H. Craigie made the discovery at Winnipeg some years ago that the various strains of the rust can hybridise on the barberry leaves, thus introducing a new sexual phase into the life-history which had not previously been understood. It has been shown that in this way new strains of the fungus can be produced by artificial mixing of the pycnidial nectar on the barberry leaf. From one such cross a number of races of the rust were derived, some of which were already common and others new. Such new races are, indeed, continually being produced in nature both by hybridisation and by mutation.

These facts show how the genetics of the parasites as well as of their hosts must be investigated in order to obtain a relative immunity. It also shows the somewhat precarious way in which the superiority of the crop over its enemies is maintained. But the problem of the production of resistant varieties of plants is much larger than I have yet indicated. All wild plants have their fungal parasites, and as the various fungi differ greatly in their life-histories and methods of attack, each case of host-parasite relationship has its own peculiar features. In North America already varieties resistant to certain parasites have been produced not only in wheat and other cereals but in lettuce, cantaloup, tomato, cabbages, sugar-beet and sugar-cane. Varieties of various legumes have recently been selected for resistance to leaf mosaic, a virus disease.

As yet very little has been done in producing immune varieties of horticultural plants, but no doubt this can be accomplished as it has been with agricultural varieties. A few years ago a very serious rust disease of antirrhinum appeared in this country. Its effects are so serious that the only satisfactory solution will be the production of a highly resistant variety.

HYBRID VIGOUR

The important principle of hybrid vigour which Darwin observed was first made use of by geneticists in connexion with the modern breeding of maize. It was found that F_1 hybrids between different strains of maize are much more vigorous as plants and give a much higher yield than the relatively pure parents. So important is this effect that methods have been introduced by which much of the crop each year is produced from seeds of an F_1 cross. Extreme inbreeding in maize produces finally dwarfed plants with very small ears. A cross between two such strains produces hybrids with extreme vigour, but this vigour rapidly diminishes unless the full hybrid condition is maintained by out-crossing.

What selection will do for maize has been strikingly shown by an experiment begun at the University of Illinois in 1902 and carried on until the present time. Dr. Cyril Hopkins selected from a field of maize of one variety, the ears growing respectively highest and lowest on the stalks. Their seeds were sown separately and the resulting strains in six years of further selection showed a mean difference of 34·2 in. in the average height of the ears and an average difference of 34·7 in. in the mean height of the two strains of plants. After the selection had been continued for twenty-five years the two strains were so unlike that it was difficult to believe they had a common origin. The mean height of the ears was in one strain 8·1 in. from the ground and in the other 126·5 in. The low-ear strain was also much earlier and had a higher yield than the high-ear strain. I may remark that this type of experiment raises problems which are still difficult for the geneticist to explain.

The principle of hybrid vigour will no doubt receive many other applications in the production of higher yields. A recent striking case has been shown in tomatoes. Twenty-nine crosses were made between different varieties and in twenty-seven of them the hybrids gave an increased yield over both parents. The average increase in yield was 95 per cent., and in a majority of cases the plants were also earlier than either parent. These results of experiments carried out in New Zealand show that in tomatoes hybrid vigour is of great importance, nearly doubling the yield.

THE IMPROVEMENT OF TREES

Nowhere is hybrid vigour more strikingly exemplified than in trees. Burbank produced a hybrid walnut tree of enormous growth many years ago. But large size in trees can also be produced in quite another way—i.e., by a mutational increase in the number of chromosomes. The European aspen, *Populus tremula*, normally has $2n = 38$ chromosomes in its cells. Geneticists have recently found in three different localities in Sweden triploid trees with 57 chromosomes. These trees are unusually tall and massive, with larger buds and twigs. The leaves are thicker and darker green and they have more than twice the surface of the normal leaves.

Forest genetics is evidently a field in which very large future developments can take place. There is equal scope for its application to tropical trees. Coconut selection has begun in New Guinea, and in Malaya there are estates of dwarf coconuts, the tree-trunks being so short that the nuts can be picked from the ground.

DRUGS, FODDER AND FRUIT

Cinchona, the source of quinine, was introduced into Indo-China from South America in 1869. Genetical work to improve the strain in the yield of quinine only began in 1917. Many other plants yielding drugs have not yet reached the stage of cultivation, which is always followed sooner or later by attempts to improve the plant as a producer. An interesting example of this kind is the sweet lupin which Erwin Baur produced by selection from a very large number of plants. It was free from a bitter alkaloid, which is normally present in lupins, and has become an important fodder plant, valuable for its protein content and because it can be grown on light soils. By similar methods Baur obtained a sweet clover (Melilotus) which was free from the bitter alkaloid coumarin.

The production of improved apple varieties can take place more rapidly now that we understand the cell structures and changes underlying the production of new forms of this fruit. The chromosomes in apples, pears, plums, cherries and related forms are in multiples of 17. Some apple varieties, such as Northern Spy, have 34 chromosomes; but many of the best varieties, such as Baldwin, Gravenstein, Blenheim and Bramley's seedling, are triploid, with 51 chromosomes. This means that the pollen is sterile, because the chromosomes are not all in pairs, and the variety will only remain true from cuttings or grafts. In Sweden, Nilsson-Ehle has recently shown that it is relatively easy to obtain new tetraploid forms with 68 chromosomes from the triploid Belle de Boskoop and Blenheim simply by growing large numbers of open-pollinated seeds. A few will have this high chromosome number. They are larger with broader leaves and other useful new characters. The crossing together of different tetraploids is a new line of apple fruit development, and, judging from the conditions in other plants, they may be more hardy and make it possible to grow apples in higher latitudes than now. Furthermore, by crossing such tetraploids with various diploids a whole series of new and probably valuable triploid apple varieties can be produced.

Fortunately for man, large-fruited bud-mutations have appeared in many fruits such as grapes, plums, pears, apples, where they are relatively common, and citrus fruits, where they frequently occur. One branch of a tree will bear the new type of fruit, which can be perpetuated by cuttings and grafts from that branch. In some cases the cells of the large-fruited branch have doubled their chromosomes, but in others the chromosome number remains unchanged. Seedless varieties of many fruits have had the same origin, as bud-mutations propagated by man.

In Russia, Michurin has produced large numbers of fruit trees of a new type, by resorting to mass selection on a large scale of the seedlings of the genus Actinidia. This genus of plants belongs to the mainly tropical Asiatic family Dilleniaceæ, but one hardy species of Actinidia occurs in the Amur region of Siberia. From it has been produced serviceable fruits for cultivation, while some forms are grown as ornamental shrubs.

That there is still abundant opportunity for bringing new plants into cultivation and improvement by man is shown by the history of the blueberry (*Vaccinium pennsylvanicum*) in America. The fruits of this plant, which are much like our bilberry, but with a distinctive flavour, have been collected in moorlands and eaten by the aborigines from time immemorial, and by Europeans since their advent. One botanist, Dr. F. V. Coville of the American Department of Agriculture, set to work and in thirty years of selection and breeding produced a blueberry of excellent flavour which is as much as an inch in diameter. It is now grown as a prolific crop in areas where no other form of agriculture could succeed.

At the plant-breeding station at Coimbatore in South India, sugar-canes have recently been crossed not only with other species of Saccharum but even apparently with Sorghum and bamboo. These crosses appear to be realities and they should give a wide new series of hybrid types, selection from which might produce, for instance, perennial sugar-canes of great growth and of much value.

Strawberries only came into cultivation in Europe in the fourteenth to sixteenth centuries. They long continued to be collected wild, as they are still in many countries. The European species of straw-

berry have 2n = 14 chromosomes and small fruits. The modern huge strawberries are descended from crosses between the Virginian and the Chilean species, both of which are octoploid in their chromosome number. Philip Miller, who was in charge of the Chelsea Physic Garden for forty-eight years (1722–70) and did so much for gardening in England, brought to England from Holland in 1759 some plants which must have had this origin.

Our cabbages and their relatives belonging to the genus Brassica have been the subject of many interesting genetic developments in recent years. The cabbage itself is clearly descended from the wild *Brassica oleracea* on our coasts. Some twenty years ago I found that wild cabbages from Shakespeare's Cliff at Dover (where they are practically the only plants to grow on the bare vertical face of the chalk cliffs), when cultivated from seeds under garden conditions, change their habit greatly and form enormous rosettes of much larger and more fleshy leaves. It is not generally recognised that in some plants the immediate effects of cultivation are very great.

Modern genetic work with sugar-beets, potatoes and tobacco is also of immense importance.

COLCHICINE AND CHROMOSOMES

I wish finally to refer to a recent very effective method of doubling the chromosomes of plants and so producing new and larger forms. In 1937 Blakeslee and Avery discovered that the alkaloid colchicine, when applied to parts of a plant such as the seeds, roots or other tissues, causes doubling of the chromosomes. This method is now being used in many laboratories in different countries. A tetraploid zinnia was produced by dropping a dilute solution of colchicine on very young seedlings, and a polyploid wild strawberry (*Fragaria vesca*) has been produced in this way. Tetraploid and octoploid petunias arose from seeds soaked in colchicine or seedlings in which the plumule was treated with the solution in agar. Tetraploid sugar-beets have been produced in Sweden but their economic value is not yet tested. In Russia a large number of tetraploid forms of barley and flax have been obtained in this way, as well as polyploid tobacco, lettuce, rye and other plants.

By repeated treatments of onion root-tips as many as 1000 chromosomes have been obtained in a single cell. Dilutions up to five parts in a million are effective.

It is probably significant that colchicine is chemically related to the carcinogenic hydrocarbons and the sex hormones. Another substance, acenaphthene, has since been shown to have similar effects. High temperatures have produced similar results in certain cases.

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Births, Marriages and Deaths

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KEMP.—On June 16, John Harold Kemp, M.B. Camb., of Woodchester, Horsham (sometime of Wellington, New Zealand).

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NEALE.—On June 16, William Henry Neale, M.D. Lond., of Loudoun Road, N.W.8.

RIGBY.—On June 17, in London, John Charles Alexander Rigby, O.B.E., M.B. Camb., late of Bildeston, Suffolk, aged 68.

N.B.—A fee of 7s. 6d. is charged for the announcement of Births, Marriages, and Deaths.

What selection will do for maize has been strikingly shown by an experiment begun at the University of Illinois in 1902 and carried on until the present time. Dr. Cyril Hopkins selected from a field of maize of one variety, the ears growing respectively highest and lowest on the stalks. Their seeds were sown separately and the resulting strains in six years of further selection showed a mean difference of 34·2 in. in the average height of the ears and an average difference of 34·7 in. in the mean height of the two strains of plants. After the selection had been continued for twenty-five years the two strains were so unlike that it was difficult to believe they had a common origin. The mean height of the ears was in one strain 8·1 in. from the ground and in the other 126·5 in. The low-ear strain was also much earlier and had a higher yield than the high-ear strain. I may remark that this type of experiment raises problems which are still difficult for the geneticist to explain.

The principle of hybrid vigour will no doubt receive many other applications in the production of higher yields. A recent striking case has been shown in tomatoes. Twenty-nine crosses were made between different varieties and in twenty-seven of them the hybrids gave an increased yield over both parents. The average increase in yield was 95 per cent., and in a majority of cases the plants were also earlier than either parent. These results of experiments carried out in New Zealand show that in tomatoes hybrid vigour is of great importance, nearly doubling the yield.

THE IMPROVEMENT OF TREES

Nowhere is hybrid vigour more strikingly exemplified than in trees. Burbank produced a hybrid walnut tree of enormous growth many years ago. But large size in trees can also be produced in quite another way—i.e., by a mutational increase in the number of chromosomes. The European aspen, *Populus tremula*, normally has 2n = 38 chromosomes in its cells. Geneticists have recently found in three different localities in Sweden triploid trees with 57 chromosomes. These trees are unusually tall and massive, with larger buds and twigs. The leaves are thicker and darker green and they have more than twice the surface of the normal leaves.

Forest genetics is evidently a field in which very large future developments can take place. There is equal scope for its application to tropical trees. Coconut selection has begun in New Guinea, and in Malaya there are estates of dwarf coconuts, the tree-trunks being so short that the nuts can be picked from the ground.

DRUGS, FODDER AND FRUIT

Cinchona, the source of quinine, was introduced into Indo-China from South America in 1869. Genetical work to improve the strain in the yield of quinine only began in 1917. Many other plants yielding drugs have not yet reached the stage of cultivation, which is always followed sooner or later by attempts to improve the plant as a producer. An interesting example of this kind is the sweet lupin which Erwin Baur produced by selection from a very large number of plants. It was free from a bitter alkaloid, which is normally present in lupins, and has become an important fodder plant, valuable for its protein content and because it can be grown on light soils. By similar methods Baur obtained a sweet clover (Melilotus) which was free from the bitter alkaloid coumarin.

The production of improved apple varieties can take place more rapidly now that we understand the cell structures and changes underlying the production of new forms of this fruit. The chromosomes in apples, pears, plums, cherries and related forms are in multiples of 17. Some apple varieties, such as Northern Spy, have 34 chromosomes; but many of the best varieties, such as Baldwin, Gravenstein, Blenheim and Bramley's seedling, are triploid, with 51 chromosomes. This means that the pollen is sterile, because the chromosomes are not all in pairs, and the variety will only remain true from cuttings or grafts. In Sweden, Nilsson-Ehle has recently shown that it is relatively easy to obtain new tetraploid forms with 68 chromosomes from the triploid Belle de Boskoop and Blenheim simply by growing large numbers of open-pollinated seeds. A few will have this high chromosome number. They are larger with broader leaves and other useful new characters. The crossing together of different tetraploids is a new line of apple fruit development, and, judging from the conditions in other plants, they may be more hardy and make it possible to grow apples in higher latitudes than now. Furthermore, by crossing such tetraploids with various diploids a whole series of new and probably valuable triploid apple varieties can be produced.

Fortunately for man, large-fruited bud-mutations have appeared in many fruits such as grapes, plums, pears, apples, where they are relatively common, and citrus fruits, where they frequently occur. One branch of a tree will bear the new type of fruit, which can be perpetuated by cuttings and grafts from that branch. In some cases the cells of the large-fruited branch have doubled their chromosomes, but in others the chromosome number remains unchanged. Seedless varieties of many fruits have had the same origin, as bud-mutations propagated by man.

In Russia, Michurin has produced large numbers of fruit trees of a new type, by resorting to mass selection on a large scale of the seedlings of the genus Actinidia. This genus of plants belongs to the mainly tropical Asiatic family Dilleniaceæ, but one hardy species of Actinidia occurs in the Amur region of Siberia. From it has been produced serviceable fruits for cultivation, while some forms are grown as ornamental shrubs.

That there is still abundant opportunity for bringing new plants into cultivation and improvement by man is shown by the history of the blueberry (*Vaccinium pennsylvanicum*) in America. The fruits of this plant, which are much like our bilberry, but with a distinctive flavour, have been collected in moorlands and eaten by the aborigines from time immemorial, and by Europeans since their advent. One botanist, Dr. F. V. Coville of the American Department of Agriculture, set to work and in thirty years of selection and breeding produced a blueberry of excellent flavour which is as much as an inch in diameter. It is now grown as a prolific crop in areas where no other form of agriculture could succeed.

At the plant-breeding station at Coimbatore in South India, sugar-canes have recently been crossed not only with other species of Saccharum but even apparently with Sorghum and bamboo. These crosses appear to be realities and they should give a wide new series of hybrid types, selection from which might produce, for instance, perennial sugar-canes of great growth and of much value.

Strawberries only came into cultivation in Europe in the fourteenth to sixteenth centuries. They long continued to be collected wild, as they are still in many countries. The European species of straw-

berry have 2n = 14 chromosomes and small fruits. The modern huge strawberries are descended from crosses between the Virginian and the Chilean species, both of which are octoploid in their chromosome number. Philip Miller, who was in charge of the Chelsea Physic Garden for forty-eight years (1722–70) and did so much for gardening in England, brought to England from Holland in 1759 some plants which must have had this origin.

Our cabbages and their relatives belonging to the genus Brassica have been the subject of many interesting genetic developments in recent years. The cabbage itself is clearly descended from the wild *Brassica oleracea* on our coasts. Some twenty years ago I found that wild cabbages from Shakespeare's Cliff at Dover (where they are practically the only plants to grow on the bare vertical face of the chalk cliffs), when cultivated from seeds under garden conditions, change their habit greatly and form enormous rosettes of much larger and more fleshy leaves. It is not generally recognised that in some plants the immediate effects of cultivation are very great.

Modern genetic work with sugar-beets, potatoes and tobacco is also of immense importance.

COLCHICINE AND CHROMOSOMES

I wish finally to refer to a recent very effective method of doubling the chromosomes of plants and so producing new and larger forms. In 1937 Blakeslee and Avery discovered that the alkaloid colchicine, when applied to parts of a plant such as the seeds, roots or other tissues, causes doubling of the chromosomes. This method is now being used in many laboratories in different countries. A tetraploid zinnia was produced by dropping a dilute solution of colchicine on very young seedlings, and a polyploid wild strawberry (*Fragaria vesca*) has been produced in this way. Tetraploid and octoploid petunias arose from seeds soaked in colchicine or seedlings in which the plumule was treated with the solution in agar. Tetraploid sugar-beets have been produced in Sweden but their economic value is not yet tested. In Russia a large number of tetraploid forms of barley and flax have been obtained in this way, as well as polyploid tobacco, lettuce, rye and other plants.

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KEMP.—On June 16, John Harold Kemp, M.B. Camb., of Woodchester, Horsham (sometime of Wellington, New Zealand).

LUNAN.—On June 15, at Blairgowrie, Charles Smith Lunan, M.B., C.M. Edin., aged 85.

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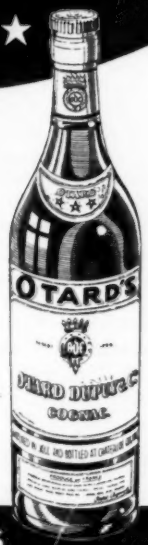

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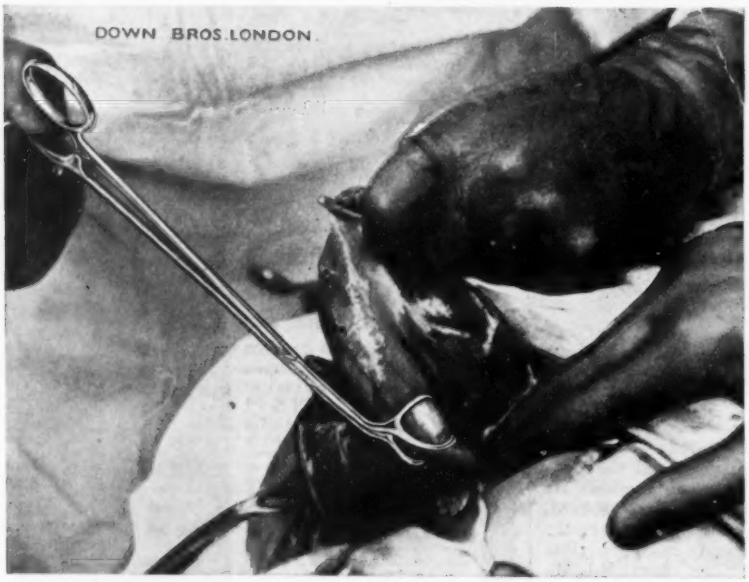

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BY

T. B. MOUAT
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Vide THE LANCET, *Nov. 12, 1938*

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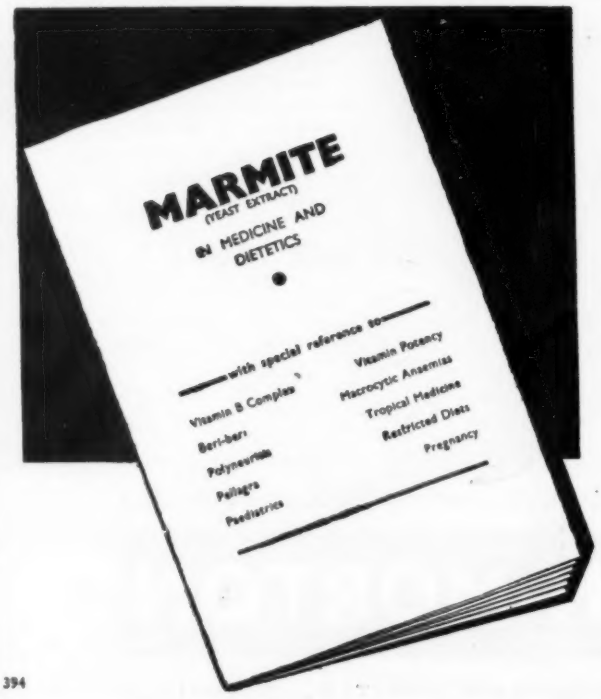

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"When I saw the girl in May, 1938, she was able to walk quite well on the level with the aid of one stick . . . When fully dressed she is to all intents and purposes an ordinary individual. Her whole outlook is changed, and she is now a self-reliant girl with a place in life instead of being a circus curiosity."

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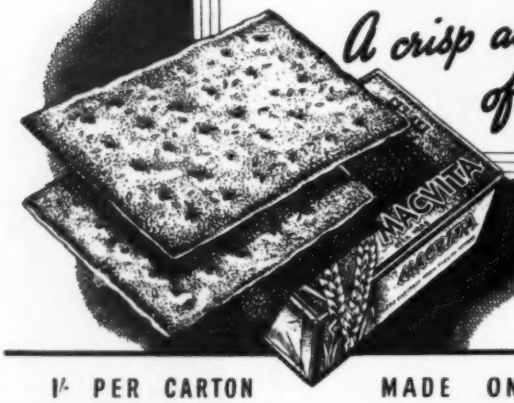

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INDICATIONS.

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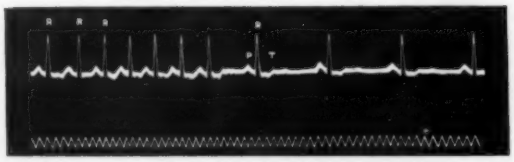
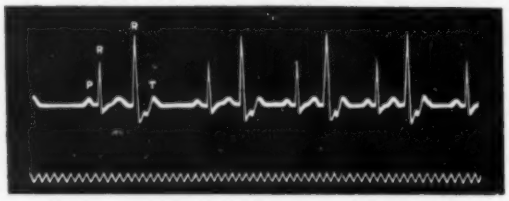


Auricular extrasystole, producing a tachycardial attack. This is followed by a normal sequence.



Bigeminus. This is not infrequently the result of hyperdigitalisation and usually disappears when digitalis is discontinued.

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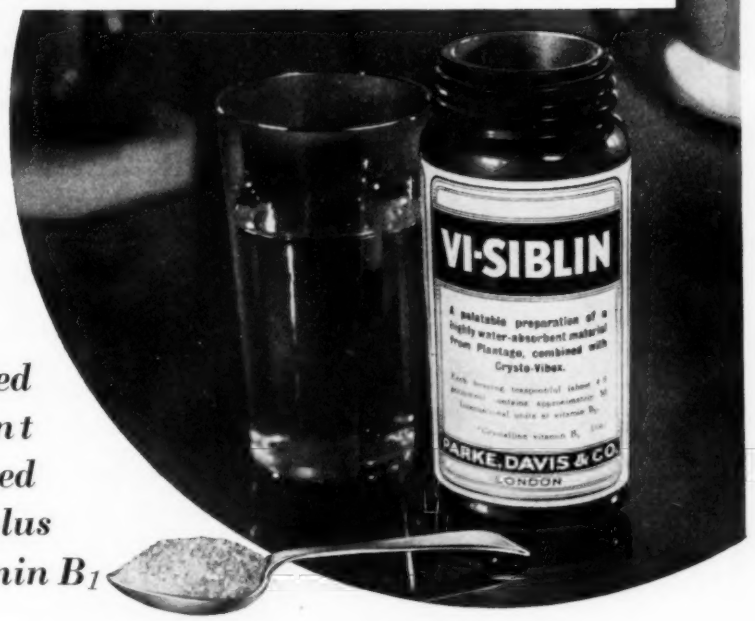

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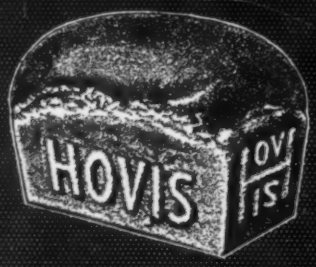

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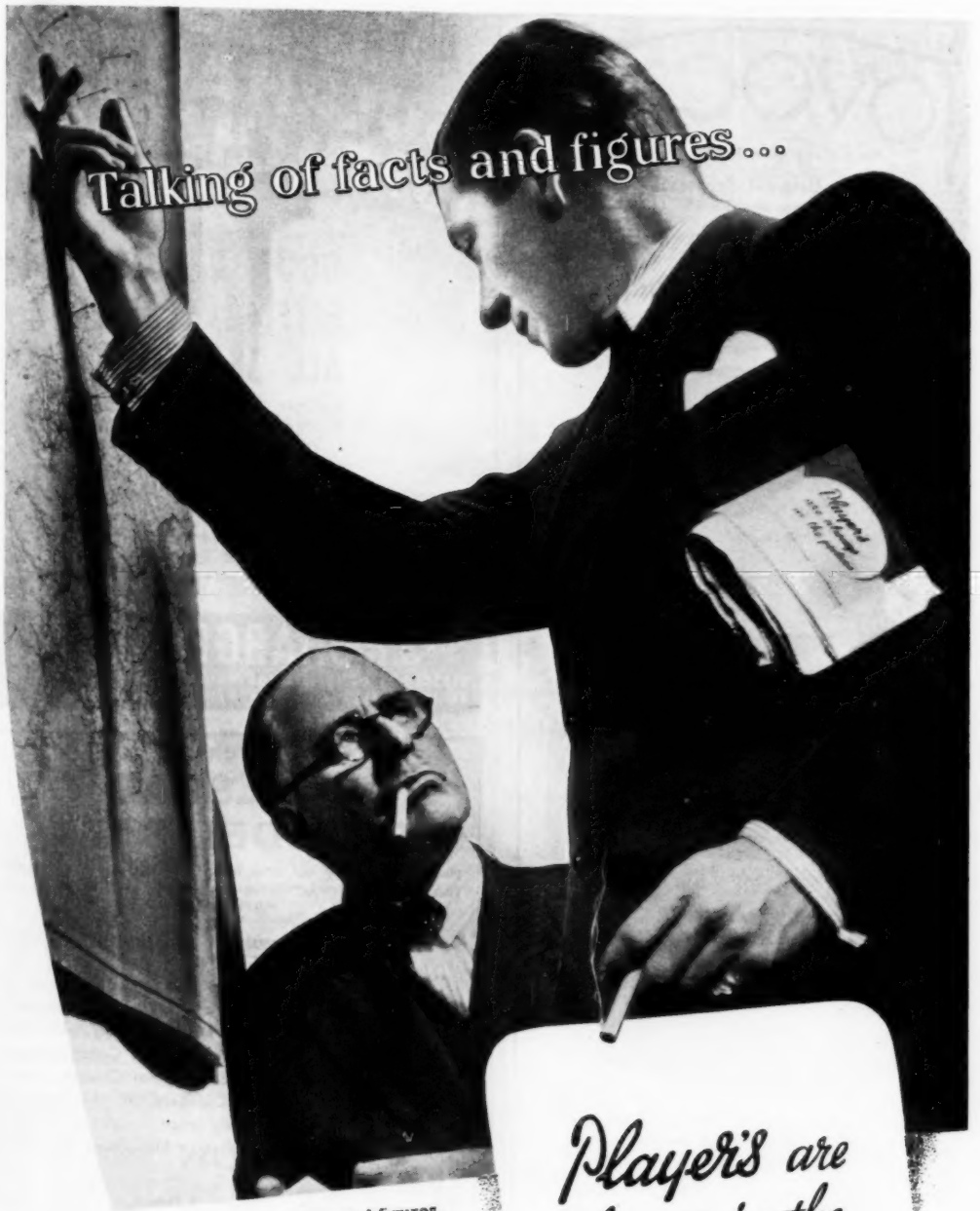

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SHAFTESBURY HOUSE

FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No. 8 Formby.*

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH

Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FIVE GUINEAS PER WEEK.

For further particulars apply to the Medical Director W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

STRETTON HOUSE,

Church Stretton, Shropshire.

ESTABLISHED IN 1853.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £5 5s. per week upwards.
2nd Class (men and women) 32/- per week.

For further particulars apply:
C. EDGAR GRISEWOOD, A.C.A., Secretary
20, Exchange Street East, Liverpool, 2

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

Grove House, All Stretton, Church

STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,**
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN — SWITZERLAND

for Nervous and Mental cases

as well as all kinds of addiction

(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER

Prospectus on application to the Management

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studa Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

CLARENCE LODGE
CLAPHAM PARK, LONDON
Situated in 3½ acres of secluded gardens.
HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.
Station: Clapham Common Tube.
Phone: Tulse Hill 4913
Apply
MISS THWAITES.

BROOKE HOUSE, CLAPTON
A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.
Voluntary, Temporary, and Certified Patients received.
For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

KINMEL HALL Rheuma Spa
Modern Spa Treatments, Including Continental Piscany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*
ABERGELE - NORTH WALES

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

A RESIDENT MEDICAL ASSISTANT AND CLINICAL PATHOLOGIST is required on the 1st July, 1939. Salary £125 per annum.

The appointment is tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

The morning duties will include those of an Out-patient Medical Registrar. The afternoons will be devoted to work in a section of the Pathological Department.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 29th May, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, 7th June, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

April, 1939.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the office of ASSISTANT SURGEON to the above Hospital.

Candidates must be Fellows of the Royal College of Surgeons of England.

Canvassing is not permitted. Candidates are, however, requested to send copies of their application and testimonials to the Members of the Committee of Management and the acting Medical and Surgical Staff, whose names and addresses can be obtained on application to the Secretary.

Applications, stating age, with copies of testimonials, must be received not later than 19th May, 1939.

ARTHUR J. M. TARRANT, Secretary.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

PATHOLOGIST AND CURATOR.

Applications are invited for the office of whole-time Pathologist and Curator. Candidates must be registered Medical Practitioners.

Salary will commence at the rate of £650 per annum, which salary will be augmented by fees from private work at the Hospital.

The Pathologist and Curator will be appointed for one year and will be eligible for reappointment yearly.

Applications, stating age and qualifications, with copies of testimonials, must be received by the undersigned not later than 15th May, 1939.

A copy of the Regulations governing the post will be sent on application.

A. J. M. TARRANT, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of SURGICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act, and engaged in consulting practice only. Preference will be given to those holding the diploma of F.R.C.S. Eng.

The appointment is made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 15th May, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Monday, 15th May, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON, to commence duties on the 1st July, 1939.

Salary at the rate of £100 per annum. The appointment is for six months, and subject to rules, a copy of which may be obtained from the Secretary.

Applications to be made on a form, which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the undersigned not later than the first post on Monday, 15th May, 1939.

CLEMENT COBBOLD, Secretary.

Battersea General Hospital,
Battersea Park, S.W.11.
(85 Beds.)

Required immediately. Applications are invited for the post of CASUALTY OFFICER (part time—five mornings a week) at a salary of £60 per annum. Candidates must be fully qualified and registered, and preference will be given to candidates working for a higher medical or surgical degree. The appointment is for a period of six months.

Applications, with copies of two testimonials, to be sent to the Secretary.

London Jewish Hospital,
Stepney Green, E.1.
(General Hospital. 109 Beds.)

Candidates (Male) for the following resident appointments, which are for a period of six months commencing 1st June next, may obtain forms of application from the Secretary to whom applications, with copies of three recent testimonials, must be sent on or before Friday, 19th May, 1939:—

RESIDENT MEDICAL OFFICER AND HOUSE PHYSICIAN.
Salary at the rate of £150 per annum.
HOUSE SURGEON. Salary at the rate of £100 per annum.
CASUALTY OFFICER. Salary at the rate of £100 per annum.

Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the post of CONSULTING PHYSICIST. Small honorarium.

Full particulars of the office may be obtained from the undersigned, to whom applications should be sent by May 12th.

GILBERT G. PANTER, Secretary.

British Postgraduate Medical School.

UNIVERSITY OF LONDON.

ASSISTANTSHIP IN MORBID ANATOMY.

Applications are invited for the post of Assistant in Morbid Anatomy in the Department of Pathology.

The salary offered is three hundred pounds (£300) per annum, rising by annual increments of fifty pounds (£50) to five hundred pounds (£500). The successful candidate will be required to join the Federated Superannuation System for Universities.

Further information can be obtained from the Professor of Pathology.

Applications, with copies of not more than three testimonials, should be submitted to the Dean, British Postgraduate Medical School, Ducane-road, London, W.12, to arrive not later than the first post on Monday, June 5th, 1939.

British Postgraduate Medical School.

UNIVERSITY OF LONDON.

ASSISTANTSHIP IN CLINICAL PATHOLOGY.

Applications are invited for the post of Assistant in Clinical Pathology in the Department of Pathology, to begin duty on 1st July, 1939.

The salary offered is three hundred pounds (£300) per annum, rising by annual increments of fifty pounds (£50) to five hundred pounds (£500). The successful candidate will be required to join the Federated Superannuation System for Universities.

Further information can be obtained from the Professor of Pathology.

Applications, with copies of not more than three testimonials, should be submitted to the Dean, British Postgraduate Medical School, Ducane-road, London, W.12, to arrive not later than the first post on Monday, June 5th, 1939.

Metropolitan Borough of Stepney.

APPOINTMENT OF TUBERCULOSIS OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of Tuberculosis Officer and Assistant Medical Officer of Health for the Borough. The person appointed will also be required to carry out such other duties as the Council may from time to time direct.

The person to be appointed must possess the qualifications prescribed by the Local Government (Qualifications of Medical Officers and Health Visitors) Regulations, 1930, together with the Diploma of Public Health and with not less than two years' experience in whole-time work in relation to Tuberculosis. He must be experienced in the induction of artificial pneumothorax treatment which he will be required to undertake.

The salary will be at the rate of £750 per annum, rising by seven annual increments of £25 and one final increment of £12 10s. to a maximum salary at the rate of £937 10s. Such salary will be an inclusive one.

The person to be appointed will be required to devote the whole of his time to the duties of the office, and act under the supervision of the Medical Officer of Health. The appointment will be subject to the provisions of the Stepney Borough Council (Superannuation) Acts, 1905 to 1931, and to the Council's by-laws, including the passing of an examination by the Council's Medical Referee as to constitutional fitness. The appointment will, moreover, be for a probationary period of six months in the first instance, and, subject thereto, the person appointed will be required to give an undertaking to remain in the Council's service for a period of two years from the date of appointment. The appointment will, moreover, be subject to the obtaining of any necessary consents.

Forms of application may be obtained from the undersigned, to whom they must be returned in envelopes endorsed "Appointment of Tuberculosis Officer" so as to reach him not later than 12 o'clock noon on Saturday, the 13th day of May, 1939.

Canvassing members or officers of the Council in any manner whatsoever is prohibited and will disqualify candidates. The Council do not bind themselves to appoint any of the candidates.

By order.

WM. MCCARTY, Town Clerk.

Municipal Offices, Raine-street, Old Gravel Lane, E.1.
April, 1939.

The London Chest Hospital,

Victoria Park, E.2.
('Bus, Tram, and Rail, Cambridge Heath, L. and N.E. Railway.)

Applications (with copies of three testimonials) are invited to be sent to the Secretary, on or before Friday, 2nd June, for the following posts, subject to the rules and by-laws of the Hospital:—

HOUSE PHYSICIAN (Male) for six months from July 1st, 1939. Salary at the rate of £100 per annum.

HOUSE SURGEON (Male) for six months from July 1st, 1939. Salary at the rate of £100 per annum.

Board, residence, and laundry provided.

London Hospital, E.1.

Applications are invited for the post of ANÆSTHETIST to the DENTAL DEPARTMENT. Attendance Mondays at 2 P.M. Honorarium £25 per annum.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than on Saturday, 20th May.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-RAY DEPARTMENT.

Candidates must be fully qualified medically.

Experience in radiology essential. Honorarium £100 per annum. Attendance five half-days weekly.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than Saturday, 20th May, 1939.

ARTHUR G. ELLIOTT, House Governor.

Miller General Hospital,

Greenwich-road, S.E.10.

Applications are invited for the following posts:—

HOUSE PHYSICIAN. Male; unmarried. Salary £100 per annum.

HOUSE SURGEON. Male; unmarried. Salary £100 per annum.

Board, residence, and laundry are provided.

TWO CASUALTY OFFICERS. Male; part-time; one for morning session and one for afternoon. Salary £150 per annum, non-resident. Fuller particulars on application.

The appointments are for six months from 1st July, 1939. There are five Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 22nd May, 1939.

29th April, 1939.

Seamen's Hospital Society.—The Committee of Management announce a vacancy in the appointment of ASSISTANT SURGEON in General Surgery at the ALBERT DOCK HOSPITAL, E.16. The elected candidate will be appointed for twelve months but will be eligible for re-election. Candidates must be Fellows of the Royal College of Surgeons of England or Masters in Surgery of a University in the United Kingdom. The Associate Surgeon is an applicant for the post.

Applications, with copies of three testimonials, to be sent in on or before May 20th to the undersigned, from whom further particulars can be obtained.

F. A. LYON, Secretary.

Seamen's Hospital Society, Greenwich, S.E.10.
28th April, 1939.

Woolwich and District War Memorial

HOSPITAL, Shooters-hill, London, S.E.18.
(General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for the post of SURGICAL REGISTRAR for a period of twelve months from the 1st of June, 1939.

An honorarium of £100 per annum will be paid in respect of this appointment, which will be renewable for a further year, if approved by the Board of Management.

Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of not more than three recent testimonials, should be addressed to the undersigned, to reach him on or before May the 22nd. Short-listed candidates will be invited to meet the Appointments Committee on Friday, May 26th, 1939.

R. S. G. HUTCHINGS, Secretary.

Borough of Barnes.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly registered Medical Practitioners (Male or Female), under forty-five years of age, for the appointment of a whole-time Assistant Medical Officer of Health at a salary of £500 per annum, rising by annual increments of £25 to a maximum of £700 per annum.

Candidates should have had experience in public health administration and must hold a diploma in public health or state medicine. Special experience in infectious diseases and infant welfare work is essential.

The person appointed will be required to act under the direction and supervision of the Medical Officer of Health (who is also Medical Officer for Maternity and Child Welfare, and Medical Superintendent of the Isolation Hospital) in carrying out the relevant statutory duties and such other duties as may from time to time be assigned to the Medical Officer of Health, and he or she will be required to assist in the organisation of the Casualty services in connexion with Air-Raid Precautions.

The successful candidate will be required to reside in the Borough of Barnes, will be required to devote the whole of his or her time to the duties of the office and will not be permitted to engage in private practice.

The appointment, which will be determinable by three months notice on either side, will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.

Applications, on forms to be obtained from the Medical Officer of Health, Public Health Department, 117, Mortlake High-street, S.W.14, endorsed "Assistant Medical Officer of Health," and accompanied by copies of three testimonials, must be sent to him so as to be received not later than Monday, 22nd May, 1939.

Canvassing, either directly or indirectly, will be a disqualification.

ARTHUR C. FOX, Town Clerk.

Council House, Mortlake High-street, S.W.14, 2nd May, 1939.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1939 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** and in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose and throat, venereal diseases, etc.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

After they are confirmed, officers become eligible in due course for promotion to higher specialist or administrative posts, with salaries varying from £1200 to £1800.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of an officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when returning from leave. Assistance is also given towards family passages.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of June, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 30th May, 1939.

Borough of Acton.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications for this appointment are invited from Medical Practitioners (Male) possessing the qualifications prescribed by the Sanitary Officers (outside London) Regulations, 1935.

The inclusive salary will be £1000 per annum, rising to a maximum of £1250 per annum (less superannuation contributions).

A copy of the terms of the appointment and forms of application may be obtained by sending an addressed foolscap envelope to the undersigned, to whom applications must be delivered not later than 31st May, 1939.

Canvassing is prohibited and will disqualify.

H. C. LOCKYER, Town Clerk.

Town Hall, Acton, W.3.

Metropolitan Hospital,

Kingsland-road, London, E.8.

Applications are invited for the post of CASUALTY OFFICER AND RESIDENT ANÆSTHETIST (Male). Salary at the rate of £100 per annum, with board, residence, and laundry. Duties to commence 1st June.

Candidates must possess a registered medical and surgical qualification of the United Kingdom.

Application forms should be obtained and returned to the undersigned not later than May 20th.

FRANK JENNINGS, House Governor and Secretary.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment:—

HOUSE SURGEON (Male only), vacant 15th June. The appointment is for nine months (six months as House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by May 12th to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Hampstead General Hospital,

Haverstock-hill, N.W.3.

Applications are invited from registered Medical Women for the resident post of CASUALTY SURGICAL OFFICER for six months, vacant 1st June, at the OUT-PATIENT DEPARTMENT, Bayham-street, Camden Town. Salary £100 per annum.

Applications on the prescribed form, with three testimonials, to be returned to the Secretary by 17th May.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

*(a) NEW END HOSPITAL, Hampstead, N.W.3.—Duties mainly surgical.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

*(b) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19.—General medical duties. (3 positions.)

*(c) DULWICH HOSPITAL, East Dulwich-grove, S.E.22.—Medical and obstetrical duties.

(d) PADDINGTON HOSPITAL, Harrow-road, W.9.—General medical duties.

(e) ST. ALFEGE'S HOSPITAL, 48, Vanbrugh-hill, Greenwich, S.E.10.—Casualty officer.

(f) ST. LUKE'S HOSPITAL, Sydney-street, S.W.3.—General medical duties. (Male applicants only.)

*†(g) ST. NICHOLAS' HOSPITAL, 79, Tewson-road, Plumstead, S.E.18.—Casualty officer.

(h) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1.—Medical duties.

* No accommodation for a woman.

† Appointee will be required to be non-resident.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 22nd May.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Experience in resident appointment in general hospital for at least six months desirable. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 with board, lodging, and washing. Appointment for one year only in first instance (renewable for second year under certain conditions) at:—

(a) KING GEORGE V. SANATORIUM, near Godalming, Surrey.

(b) GROVE PARK HOSPITAL, Lee, S.E.12.

Experience in non-pulmonary tuberculosis desirable.

Application forms obtainable (stamped, addressed, foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 15th May.

Canvassing disqualifies.

The Infants Hospital,

Vincent-square, Westminster.

Applications are invited from qualified Medical Practitioners for appointment as CLINICAL ASSISTANTS (Honorary, and for D.C.H. candidates) in the Out-patient Department.

Applications, stating previous experience, must be delivered not later than May 31st to the Secretary from whom further information may be obtained.

The Infants Hospital,

Vincent-square, Westminster.

Applications are invited for the post of HOUSE PHYSICIAN (either sex). Preference will be given to candidates who have held previous resident appointments.

Salary at the rate of £100 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.C.H.

The appointment is for six months from July 1st.

Applications, with copies of testimonials, to be forwarded to the undersigned not later than May 31st.

ARNOLD TUNSTALL, Secretary.

County Borough of West Ham.

SOUTH OCKENDON COLONY, SOUTH OCKENDON, ESSEX.

(520 Beds.)

MEDICAL SUPERINTENDENT.

The Council invite applications for the appointment of a Medical Superintendent (to devote his whole time to the duties) for the South Ockendon Colony, South Ockendon, near Grays, Essex, at an inclusive salary of £900 per annum, rising by annual increments of £25 to a maximum of £1000, together with unfurnished house, coal, light, and water, valued for superannuation purposes at £100 per annum (which sum is not included in the salary as stated above); all fees, from whatever source received, to be paid over to the Council.

The appointment will be subject to the Council's regulations as made from time to time regarding holidays, sick pay, &c. Applicants, must be not more than forty-five years of age, except those already in the service of the Council.

Candidates must have been duly qualified Medical Practitioners for at least five years, and produce evidence of having held an administrative appointment in a certified institution.

The Colony is under the general supervision of the Medical Officer of Health, and the person appointed will be required to act under his instructions.

The successful candidate will be required to pass a medical examination, and the appointment will be subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918.

Further particulars may be obtained from Dr. E. Ashworth Underwood, Medical Officer of Health, Public Health Department, 88, Romford-road, West Ham, E.15.

There is no prescribed application form, but applications should state the name of applicant, date and place of birth, whether married or single, medical and other qualifications (with medical schools and dates), and should give full particulars of present and previous appointments, and of the candidate's experience in mental deficiency and other branches of medicine, and should be accompanied by copies of not more than three recent testimonials. Applications should be returned to the undersigned not later than 13th May, 1939.

Canvassing members of the Council is prohibited and will disqualify.

CHARLES E. CRANFIELD, Town Clerk.

Town Hall, West Ham, E.15, May, 1939.

Cameron Hospital, West Hartlepool.

(86 Beds.)

HOUSE SURGEON (Male or Female) required to commence duties 27th May, 1939. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, and experience, together with copies of testimonials, should be sent to the undersigned as soon as possible.

C. S. KAY, Secretary.

Hertford County Hospital.

(171 Beds.)

DEPARTMENT OF PHYSICAL MEDICINE.

Applications are invited for the post of HONORARY CONSULTING PHYSIO-THERAPEUTIST to the above department.

Applications, together with copies of testimonials, should be made by Monday, 22nd May, 1939, to the undersigned.

PERCY G. BROOKS, Secretary.

Hertford County Hospital.

(171 Beds. 3 Residents.)

Applications are invited for the post of HOUSE SURGEON (Male). Salary £200 per annum, with board, residence, and laundry. Duties to commence 1st June, and the appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned not later than Monday, 22nd May instant.

PERCY G. BROOKS, Secretary.

Middlesex County Council.

REDHILL COUNTY HOSPITAL,
EDGWARE, MDX.

VISITING OPHTHALMIC SURGEON with F.R.C.S. or degree or diploma in Ophthalmology. One session weekly at 3 guineas per session, and charge of four ophthalmic beds.

CENTRAL MIDDLESEX COUNTY HOSPITAL,
Acton Lane, Willesden Junction, N.W.10.

VISITING OPHTHALMOLOGIST with F.R.C.S. or degree or diploma in Ophthalmology. Weekly session at 3 guineas per session.

OBSTETRICIAN (Grade I). Registered Medical Practitioner of high qualifications and professional attainments having devoted time chiefly to practice of obstetrics and gynæcology. Whole-time duties under supervision of Medical Superintendent may include teaching students, with such other duties as the Council may direct. Salary £1000–£50–£1500 per annum is inclusive, and any fees received must be paid to County Council. Appointment subject to 3 months' notice. Medical examination in connexion with pensionable staff.

A new Maternity Department (60 Beds) to be opened shortly.

ASSISTANT PATHOLOGIST. Registered Medical Practitioner with extensive post-graduate experience in pathological work, especially in morbid anatomy and histology. Whole-time duties under direction of Medical Superintendent may include teaching students with such other duties as the Council may direct. Salary £650–£25–£800 per annum is inclusive and any fees received must be paid to the Council. Appointment subject to 3 months' notice. Medical examination in connexion with pensionable staff.

Resident ASSISTANT MEDICAL OFFICER (ANÆSTHETIST). Registered Medical Practitioner, having held resident appointments in general hospitals, preferably surgical, and skilled in administration of anæsthetics by modern methods, required to administer anæsthetics and for such other duties as may be allotted, under direction of Medical Superintendent. Salary £400–£25–£475 per annum, with board, lodging, and laundry. Appointment for four years, subject to one month's notice. Medical examination in connexion with pensionable staff. In special cases may be retained on established staff at £500 per annum (maximum).

Resident CASUALTY MEDICAL OFFICER.* Registered Medical Practitioner with considerable all-round experience having held posts as House Physician and Surgeon in general hospitals. Whole-time duties under direction of Medical Superintendent include dealing with casualties and admissions to hospital, with such other duties as may be required. Salary £350 per annum, with board, lodging, and laundry.

Resident JUNIOR ASSISTANT MEDICAL OFFICER.* Registered Medical Practitioner having held resident appointments in general hospitals. Whole-time duties under direction of Medical Superintendent mainly obstetrical and gynæcological. Qualifying appointment for M.C.O.G. and D.C.O.G. Salary £250 per annum, with board, lodging, and laundry.

* Appointment, subject to medical examination and one month's notice, primarily for six months, but may be extended for further six. Preservation of pension rights under certain acts.

Written applications to be accompanied by completed Form "A" obtainable on request from the undersigned.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

Lancashire County Council.

PUBLIC ASSISTANCE COMMITTEE.

LAKE HOSPITAL AND DARNTON HOUSE INSTITUTION, ASHTON-UNDER-LYNE, Near MANCHESTER.

APPOINTMENT OF JUNIOR RESIDENT MEDICAL OFFICER.

Salary £225 per annum, together with the usual residential emoluments.

The person appointed will be required to take up duty on the 1st June, 1939.

Applications are invited from registered Male Medical Practitioners for the above appointment at the Lake Hospital and Darnton House Institution, Ashton-under-Lyne, comprising 300 and 525 beds respectively.

The Hospital is recognised as a complete Training School for Nurses.

Candidates must be unmarried. Preference will be given to candidates having previous hospital experience.

The appointment will, in the first instance, be for a period of six months, the successful candidate being eligible for reappointment for a further period of six months at the end of that period.

Forms of application may be obtained from the County Medical Officer of Health, Public Assistance (Hospital and Medical) Department, County Offices, Preston, to whom all applications, accompanied by copies of not more than two recent testimonials, must be forwarded not later than Monday, 15th May, 1939.

GEORGE ETHERTON, Clerk of the County Council.
County Offices, Preston, 1st May, 1939.

Warneford Hospital for Mental DISORDERS, OXFORD.

LOCUM TENENS (Male) wanted for three months from 14th June. Salary 7 guineas per week with board, lodging, and laundry. Psychiatric experience an advantage.

Apply as soon as possible to the Physician Superintendent.

The King Edward VII Welsh National MEMORIAL ASSOCIATION.

Applications are invited from duly registered Medical Practitioners (Male, single) for the post of ASSISTANT RESIDENT MEDICAL OFFICER (twelve months' appointment) at the NORTH WALES SANATORIUM (247 Beds for female pulmonary and male, female, and children non-pulmonary cases), DENBIGH, NORTH WALES.

Salary £200 per annum, plus maintenance.

Applications, stating age, qualifications, experience, &c., together with copies of three recent testimonials, should reach the undersigned not later than Wednesday, May 10th, 1939.

D. A. POWELL, Principal Medical Officer.
Memorial Offices, Cathays Park, Cardiff.

The Guest Hospital, Dudley.

(General Hospital. 139 Beds.)
The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

HOUSE SURGEON (Male) required. Duties to commence June 5th, 1939. Salary at the rate of £150 per annum, with furnished apartments, board, and laundry. Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.
April 24th, 1939.

Manchester Royal Infirmary.

BARNES CONVALESCENT HOSPITAL.

JUNIOR ASSISTANT MEDICAL OFFICER.

The Board of Management of the Manchester Royal Infirmary invite applications for the above post, vacant on the 1st May, 1939. Applicants must hold a Medical and Surgical qualification and be registered and have had a hospital appointment. The appointment is for six months, renewable for a further period of six months, subject to the provisions of the by-laws as to notice, &c. Salary at the rate of £150 per annum, with board, residence, and allowance for laundry.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board as soon as possible.

By Order,
F. J. CABLE, General Superintendent and Secretary.

Chesterfield and North Derbyshire ROYAL HOSPITAL.

(220 Surgical and Medical Beds.)

HOUSE SURGEON TO OPHTHALMIC AND EAR, NOSE, AND THROAT DEPARTMENT.

Applications are invited from fully qualified men for the above post.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.
April 29th, 1939.

The Royal Cripples Hospital, BIRMINGHAM.

278 Beds for Acute Cases (including a proportion of patients suffering from Tubercular Bone Disease) and large Out-patient Department.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male), vacant May 15th, 1939. Salary £200 per annum, plus car allowance. The appointment, which is for a period of six months, is renewable on the discretion of the Medical Board, and is terminable by one month's notice on either side.

Candidates must be unmarried, and preference will be given to those with previous experience in General and Orthopædic Hospitals.

Applications, with copies of three recent testimonials, to the General Secretary, Royal Cripples Hospital, 80, Broad-street, Birmingham, 15.

Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).

Wanted, a FIRST HOUSE SURGEON, Male, unmarried. Candidates must be duly qualified and registered. The appointment will be for a period ending 31st October, 1939. Salary, including all services required in connection with the Paying Patients' Ward, £200 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer, House Physician, two House Surgeons, and Casualty Officer. The Hospital contains Maternity and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned to whom applications, stating age and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary
1st May, 1939.

Urban Districts of Newton-le-Willows AND GOLBORNE.

WHOLE-TIME MEDICAL OFFICER.

Applications are invited from qualified persons not exceeding forty-five years of age for the position of Medical Officer to each of the above-named Urban Districts under a joint appointment by the respective Councils; each Council is the Maternity and Child Welfare Authority for its District, and the duties will extend to responsibility for and clinical duties in this Branch of each Council's service and to the Medical Superintendency of the Infectious Diseases Hospital of the Newton-le-Willows U.D.C. (serving two other areas).

The person to be appointed must be a duly qualified Medical Practitioner, and must in addition be registered as a holder of a Diploma in Sanitary Science, Public Health or State Medicine He must not engage in private practice, and is to devote his whole time to the two offices.

The appointment will be subject to the provisions of Section 110 of the Local Government Act, 1933, and the Sanitary Officers (Outside London) Regulations, 1935; also to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, for the purposes of which the person selected for appointment will be subject to a Medical examination.

The salary for the joint appointment will be £800 per annum, rising by annual increments of £25 to a maximum of £900 per annum. A travelling allowance of £50 per annum will also be paid, and in each district office accommodation and clerical assistance will be provided.

Applications (endorsed "Medical Officer") stating age, present position, past appointments, qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be addressed to J. H. Warren at the Town Hall, Market-street, Newton-le-Willows, Lancs., so as to be received not later than NOON on Monday, 22nd May, 1939.

Canvassing will be a disqualification, and applications should be accompanied by a statement as to whether the applicant is related to any member or senior officer of either of the two Councils.

J. H. WARREN, Clerk of the Newton-le-Willows U.D.C.
H. ECKERSLEY, Clerk of the Golborne U.D.C.
Town Hall, Market-street, Newton-le-Willows, Lancs.
20th April, 1939.

University of Liverpool and Liverpool MATERNITY HOSPITAL.

Applications are invited for the resident post of OBSTETRIC ASSISTANT AND TUTOR. Candidates must have had experience in the teaching of Obstetrics, and preference will be given to one holding a higher surgical qualification.

The appointment is for two years, from October 1st, 1939, subject to three months' notice on either side during the period. Salary at the rate of £250 per annum for the first twelve months, rising to £300 per annum for the remaining twelve months, with board-residence.

Applications, accompanied by testimonials, with seven complete copies thereof, should be forwarded on or before Saturday, May 27th, 1939, to the Secretary, Liverpool Maternity Hospital, Oxford-street, Liverpool, 7, from whom further particulars may be obtained.

University of Aberdeen.

The Senatus will award A. W. GARDEN FELLOWSHIPS in June, 1939, for the period commencing 1st October, 1939. The Fellowships are of the annual value of not less than £200 and are normally tenable for from 3 to 5 years in any of the Departments of the Faculty of Medicine in the University of Aberdeen. Graduates in Medicine of any British University are eligible, but preference will be given to Medical Graduates of the University of Aberdeen with suitable qualifications.

Applications must be lodged before 31st May, 1939, with the Secretary of the University of Aberdeen, Marischal College, Aberdeen, from whom particulars may be obtained.

County Mental Hospital, Prestwich, MANCHESTER.

LOCUM TENENS (with a possibility of permanency) Male MEDICAL OFFICER, age not exceeding thirty-five, required at the above Hospital which is a Training School. Salary £7 7s. per week, with board, lodging, and laundry. Copy testimonials only must be sent.

Candidates must be unmarried and registered under the Medical Act. Appointment terminable by one week's notice on either side.

Apply as soon as possible, stating age, hospital and other experience, qualifications, and full particulars to the Medical Superintendent.

Birmingham and Midland Eye Hospital.

Applications are invited from duly qualified Medical Practitioners for the post of RESIDENT SURGICAL OFFICER at the above Hospital. Salary £200 per annum and £10 laundry allowance.

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons, and, in the event of one of the latter being promoted to the position of Resident Surgical Officer, applicants should state whether they will be willing to accept appointment as House Surgeon at a salary of £130 (rising at the end of six months' satisfactory service to £150) per annum.

Applications, with testimonials and evidence of registration, must be received not later than Monday, May 8th next.

J. W. PEARCE, House Governor.

Church-street, Birmingham 3.

West Sussex County Council.

RESIDENT MEDICAL SUPERINTENDENT AND ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners under forty-five years of age for the appointment of Resident Medical Superintendent of ST. RICHARD'S HOSPITAL (140 Beds), CHICHESTER, and Assistant County Medical Officer of Health. Preference will be given to applicants who have held resident surgical and medical posts and who have had experience of administration in a General Hospital or a Poor Law Hospital. The Medical Superintendent will be attached to the Staff of the County Medical Officer of Health and may be required to act in an advisory and administrative capacity in respect of other Institutions belonging to the County Council.

Salary, £700 per annum, rising by annual increments of £50 to £1000 per annum, together with house, &c., valued at £100 per annum. The selected candidate will be required to pass a satisfactory medical examination.

Forms of application, together with a list of duties and conditions of appointment, may be obtained from the undersigned, and should be returned to him not later than Thursday, 11th May, 1939.

T. C. HAYWARD, Clerk of the County Council.
County Hall, Chichester, 24th April, 1939.

AMENDED ADVERTISEMENT.

County Borough of Burnley.

ASSISTANT MEDICAL OFFICER (Female).

Applications are invited from duly qualified and registered Medical Practitioners (Female), not exceeding forty years of age, for the appointment of Assistant Medical Officer of Health. The duties will be mainly those connected with Maternity and Child Welfare and the Council's Maternity Hospital.

The salary will be £600 per annum, rising, subject to satisfactory service, by £25 per annum, to a maximum of £700 per annum, less a deduction of £125 per annum for board, lodging, and laundry.

The successful candidate will be required to devote whole-time to the service of the Council and to reside in the quarters provided.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful candidate will be required to pass a Medical Examination.

Further particulars of duties, conditions of appointment and forms of application may be obtained from the Medical Officer of Health, 27, St. James'-street, Burnley, to whom applications, together with copies of three recent testimonials, should be sent not later than 17th May, 1939.

Canvassing, either directly or indirectly, will be a disqualification.

HARRY PLOWMAN, Town Clerk.
Town Hall, Burnley, 20th April, 1939.

City of Stoke-on-Trent Education COMMITTEE.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from registered and fully qualified Medical Practitioners (Men) for the post of Assistant School Medical Officer.

Salary Scale: £500 to £700 per annum by annual increments of £25 subject to satisfactory service.

The person appointed may be placed on an appropriate point of the Scale according to previous experience in similar work.

The successful candidate will be required to devote the whole of his time to the duties of the office, and work under the immediate direction of the Senior School Medical Officer. The duties will consist mainly of Routine Medical Inspection and School Clinic work, and the appointment will be subject to the Local Government Superannuation Act, 1937.

Canvassing will be considered a disqualification. Forms of application may be obtained from the undersigned on receipt of a stamped, addressed, foolscap envelope, and completed forms should be submitted not later than 10th May, 1939.

J. F. CARR, Director of Education.
Education Offices, Town Hall, Hanley, Stoke-on-Trent.
19th April, 1939.

Royal Isle of Wight County Hospital, RYDE, ISLE OF WIGHT.

HOUSE PHYSICIAN wanted, with care of Casualty and Special Departments for June 1st, lady, unmarried, qualified and registered. Salary at the rate of £130 a year, with board, residence, and laundry.

Apply, stating age and nationality, enclosing copies of testimonials to Secretary, before Wednesday, May 17th. Return third class fare for selected candidates.

A. S. GORDON, Secretary.

General Hospital, Nottingham. (389 Beds.)

A RESIDENT CASUALTY OFFICER (Male) is required at the above Institution. The appointment is for six months, with salary at the rate of £150 a year, with board, residence, and laundry.

Candidates are desired to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned.

Duties to commence on Saturday, 17th June, 1939.

HENRY M. STANLEY, House Governor and Secretary.

The Royal Eastern Counties' Institution
FOR THE MENTALLY DEFECTIVE, COLCHESTER.

ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the above post from unmarried Male Medical Practitioners, not over thirty-six years of age. Total beds over 1700.

The medical man appointed will be stationed at the new extension, Turner Village, and will be required gradually to assume responsibility for administrative work connected with that extension, which has at present over 400 beds. For that reason the commencing salary has been fixed at £400 per annum, together with furnished apartments, board, laundry and attendance. No deductions. Previous specialisation in Mental Deficiency is not essential.

A Research Department, with a Medical Director and other staff, working under the Medical Research Council and the Rockefeller Foundation, is attached to the Institution. New laboratories are completed, and there is every facility for research work.

Apply before May 16th, giving age, nationality, full details of qualifications, and copies of testimonials, to the Medical Superintendent, Royal Institution, Colchester.

County Borough of Warrington.

AIR-RAID PRECAUTIONS.

ASSISTANT MEDICAL OFFICER.

The Air-Raid Precautions Committee invite applications for the appointment of a Temporary Medical Officer to act under the Medical Officer of Health in connexion with the Air-Raid Precautions Casualty Services of the Borough.

The salary will be at the rate of £500 per annum and will be payable monthly.

The duties will include :—

(1) Selection of volunteer personnel for duties.
(2) Unit training, special demonstrations and exercises.
(3) Equipment, &c., to First-Aid Posts.
(4) Assistance in office organisation and general supervision of the Casualty and Hospital Services relating to Air-Raid Precautions.
(5) If required, lectures and examinations in First-Aid.

The appointment may be determined by either party by one month's notice.

Applications should be addressed to the undersigned and should be received by Monday, the 15th May, 1939.

STUART F. ALLISON, M.B., Ch.B., D.P.H., Medical Officer of Health.

Health Department, Sankey-street, Warrington, May, 1939.

Ministry of Home Affairs for Northern IRELAND.

APPOINTMENT OF A MEDICAL INSPECTOR.

The Ministry of Home Affairs for Northern Ireland invites applications for the position of Medical Inspector on the staff of the Ministry.

Candidates must have at least seven years' experience as a practising physician or surgeon, and must not be more than fifty years of age on 31st March, 1939. The successful candidate will be required to satisfy the Civil Service Commissioners for Northern Ireland as to age, health, and nationality.

The salary attached to the position is £750 per annum, rising by annual increments of £30 to £1100 per annum.

The position is whole-time and the holder will not be permitted to engage in private practice. He will be subject to the Regulations applicable to the Civil Service of Northern Ireland relating to leave, expenses, retirement, &c.

No expenses will be allowable in connexion with the attendance of a candidate for interview or in taking up the appointment.

Applications, with particulars of Degrees, Diplomas, and experience, and accompanied by copies of recent testimonials, should be addressed to :—

The Secretary, Ministry of Home Affairs (Establishments), Stormont, Belfast, and should reach this Office not later than 20th May, 1939.

Sutton and Cheam Hospital, Sutton,
SURREY. (75 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER (Male). Salary £100 per annum, with residence, board, and laundry. The appointment will be for six months from 1st June next.

Applications, giving full particulars as to age and qualifications, together with copies of three recent testimonials, should be sent to the Secretary not later than Monday, 15th May.

Bentalls, Ltd., Kingston-on-Thames.

MEDICAL OFFICER.

Applications are invited from Male registered Medical Practitioners for the post of a whole-time Medical Officer to BENTALLS, a department store employing 2500 men and women. The commencing salary will be £600 per annum.

The appointment offers opportunities for the investigation of factors influencing industrial efficiency. A Clinic with State Registered Nurses is already established.

Applications, stating full particulars as to age, qualifications, previous experience, and accompanied by copies of three testimonials, should be addressed to :—

GERALD C. BENTALL, Danesdyke, Coombe Lane, Kingston Hill, Surrey.

St. Bartholomew's Hospital, Rochester.
(200 Beds.)
Five Residents.

APPOINTMENT OF HOUSE PHYSICIAN.

The House and Finance Committee invite applications for the post of House Physician which will become vacant on the 1st June, 1939.

Candidates must be unmarried, qualified and registered Medical Men. The appointment is for six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, experience, &c., accompanied by copies of two testimonials or one from the Dean of the candidate's Medical School, should be received by the Superintendent-Secretary not later than noon, 19th May, 1939.

Canvassing the Honorary Staff will disqualify.

St. Bartholomew's Hospital, Rochester.
(200 Beds.)
Five Residents.

APPOINTMENT OF HOUSE SURGEON.

The present House Surgeon having been promoted to the Assistant Registrarship, the House and Finance Committee invite applications for the vacant post of House Surgeon thus created.

Candidates must be unmarried, qualified, and registered Medical Men. The appointment is for six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, experience, &c., accompanied by copies of two testimonials or one from the Dean of the candidate's Medical School, together with the date on which candidate is prepared to commence duty, should be received by the Superintendent-Secretary not later than noon, 19th May, 1939.

Canvassing the Honorary Staff will disqualify.

Borough of Twickenham.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (Male) possessing a Diploma in Public Health for the above appointment. The salary will be at the rate of £750 per annum, rising, subject to satisfactory service, by annual increments of £25 to £900 per annum. There will be, in addition, a car allowance.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate satisfactorily passing a medical examination.

Forms of application and particulars of the duties and terms of appointment may be obtained from the Medical Officer of Health, Public Health Department, Elmfield House, High-street, Teddington, by whom applications (endorsed "Deputy Medical Officer of Health"), with copies of not more than three recent testimonials, must be received not later than first post on Saturday, 20th May, 1939.

Canvassing will disqualify.

EDWIN G. STRAY, Town Clerk.

Municipal Offices, Twickenham, 24th April, 1939.

Southend-on-Sea General Hospital.
(250 Beds.) 8 Residents.

Applications are invited from Male candidates for the three posts of :—

HOUSE PHYSICIAN.
HOUSE SURGEON.
CASUALTY OFFICER (with duties in Orthopædic Department and Fracture Clinic).

Each appointment is for six months, from 1st June. Salary, £100 per annum with board, residence, &c.

Applications, with copies of two recent testimonials, should be sent to the undersigned not later than 16th May, 1939.

P. H. CONSTABLE, Secretary.

Walsall General Hospital.

The Committee invite applications from Men for the post of HOUSE SURGEON. Must have had previous experience in the administration of Anæsthetics.

Candidates, who must be registered under the Medical Acts, must produce three recent testimonials. The appointment will be for six months. Salary at the rate of £150 per annum. The Hospital contains 170 Beds and is equipped in all special departments.

Applications must be sent at once to the undersigned. The successful applicant will be desired to take up his duties on 1st June.

WALTER FRANCOMBE, House Governor.

1st May, 1939.

Royal Victoria Hospital, Belfast.

Applications are invited for the post of ORTHOPÆDIC REGISTRAR to the Hospital. The appointment will be non-resident. The Registrar will be expected to confine himself to the practice of orthopædic surgery and be otherwise qualified to hold the position of Surgeon to the Hospital.

Information as to duties may be obtained from the undersigned, to whom applications must be forwarded not later than Wednesday, 31st May, 1939.

S. I. TURKINGTON, Hon. Secretary, Medical Staff.

FOUNDATION TO PROMOTE ENCEPHALITIS RESEARCH AT THE UNIVERSITY OF BERNE

The object of the foundation is to award prizes for work on the subject of encephalitis lethargica which signifies real progress in the diagnosis or treatment of the disease.

The smallest prize amounts to 1000 Swiss Francs.

Participants should send their application to the Dean of the Medical Faculty of Berne, which allocates the prize at the end of each year.

Christie Hospital and Holt Radium INSTITUTE, WITHINGTON, MANCHESTER, 20.

VISITING ANÆSTHETIST.

The Committee invite applications for a vacant post on the Visiting Anæsthetists' staff from candidates engaged on full-time anæsthetic work.

Information, regarding remuneration and duties, may be obtained from the undersigned.

PERCY N. GLASS, Superintendent.

The West Riding of Yorkshire MENTAL HOSPITALS BOARD.

MENSTON MENTAL HOSPITAL, near LEEDS.

APPOINTMENT OF A SENIOR MEDICAL OFFICER.

Applications are invited for the appointment of a Senior Medical Officer (Male) in the Board's service at the above Mental Hospital.

Scale of salary £650 per annum rising, subject to satisfactory service, by annual increments of £25 to a maximum of £750 per annum, together with emoluments (payable in cash) valued at £120 per annum, of which £72 is repayable as rent of an unfurnished house which will be provided.

The commencing salary to be paid will, within the above limits, be according to qualifications and experience, and is entirely at the discretion of the Committee.

Candidates must possess the Diploma in Psychological Medicine and have a sound experience in the diagnosis and treatment of mental disorder.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909 (Class I).

Applications, with copies of not more than two recent testimonials, stating age and full particulars, to reach the undersigned not later than the 15th May, 1939.

There is no printed form of application.

G. L. BANNER, Clerk of the Board.

Board Offices, Victoria Chambers, Wood-street, Wakefield (P.O. Box No. 28).

May, 1939.

City of Manchester.

The Public Health Committee invites applications from registered Medical Practitioners for the under-mentioned appointments :—

BOOTH HALL HOSPITAL FOR CHILDREN. (760 Beds.)

Two RESIDENT ASSISTANT MEDICAL OFFICERS (Grade 3). (One Man and one Woman.)

WITHINGTON HOSPITAL. (1184 Beds.)

(Recognised under the regulations for F.R.C.S.)

One RESIDENT ASSISTANT MEDICAL OFFICER (Grade 3).

The salary for each appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

Each appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Box 399, Town Hall, Manchester, 2, and applications for the posts must be received by him not later than the undermentioned dates :—

Booth Hall Hospital appointments .. 16th May, 1939.
Withington Hospital appointment .. 22nd May, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 1st May, 1939.

Royal South Hants and Southampton HOSPITAL. (295 Beds.)

Applications are invited for the appointment of HOUSE PHYSICIAN for four or seven months commencing 1st June, at a salary of £150 per annum, with board, residence, and laundry. Candidates must be Male and unmarried.

Applications, accompanied by not more than three testimonials, should be sent to the undersigned not later than Friday, 12th May.

S. W. BARNES, House Governor and Secretary.

Preston and County of Lancaster ROYAL INFIRMARY.

Applications are invited from doubly qualified, unmarried Medical Practitioners for the post of CASUALTY HOUSE SURGEON—14,000 Casualties annually. Six months' appointment, vacant 15th May. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copy testimonials, to be forwarded to Mr. JOHN GIBSON, F.H.O.A., J.P., Superintendent, Royal Infirmary, Preston.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

SURREY COUNTY SANATORIUM, MILFORD. (300 Beds.)

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (either sex) for the appointment of Junior Assistant Medical Officer at the County Sanatorium, Milford, near Godalming. Resident experience in general hospital essential. Appointment is for six months, renewable for further period of six months. Salary £250 per annum, together with full residential emoluments. Appointment is subject to the Staffing Regulations of the County Council.

Applications, stating age, qualifications, and experience, and enclosng copies of not more than three recent testimonials, should be sent to the Medical Superintendent, Surrey County Sanatorium, Milford, Surrey, to reach him not later than Wednesday, the 17th May, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-on-Thames, 5th May, 1939.

Manchester Royal Infirmary.

HONORARY ASSISTANT RADIOLOGIST.

The Board of Management invite applications for the above appointment.

Candidates must be graduates in Medicine of a British or Irish University, or Fellows, Members, or Licentiates of one of the Royal Colleges of the United Kingdom, and must hold a recognised diploma in radiology.

Candidates are required to forward Diplomas, original testimonials, and a certificate of age with their applications addressed to the Secretary, on or before Wednesday, 31st May, 1939, from whom also a copy of the Rules can be obtained.

Candidates are required to furnish forty-five copies of their application and dated testimonials addressed to the Secretary for distribution prior to the meeting of the Committee.

Canvassing directly or indirectly is forbidden, and the Committee reserve to themselves the right, on proceeding to election, to take into consideration any complaint that canvassing on behalf of any candidate has taken place.

By Order,
F. J. CABLE,
General Superintendent and Secretary.

29th April, 1939.

Port Elizabeth Hospital Board.

JUNIOR RADIOGRAPHER. (Female.)

Applications are invited from suitable qualified candidates for the post of Junior Radiographer at the PROVINCIAL HOSPITAL, PORT ELIZABETH, SOUTH AFRICA.

The salary attached to the Post will be £145 per annum, rising by annual increments of £12 10s. per annum to the maximum of £207 10s. per annum plus a cash allowance of £6 per month in lieu of board and lodging ; a supply of uniforms and shoes will be provided.

The successful applicant will be required to enter into a service agreement for a minimum period of 3 (three) years with the Board, who will undertake to refund her passage money (2nd class single) upon the completion of three years' satisfactory service. If, however, the contract is broken the Board will only be liable for a pro rata share of the passage money equal to the expired period of the contract.

Applicants are to state age, educational and professional qualifications, experience, and the earliest date on which they can assume duty, and should send these to the London Agents of the Hospital, H. CHAPLIN & CO., 101, Leadenhall-street, London, E.C.3. Closing date May 11th.

County Borough of Reading.

BATTLE HOSPITAL.

APPOINTMENT OF RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer (Male) at the above Hospital, at a salary of £300 per annum, with board, residence, &c. Candidates must be single. The selected candidate will be required to work under the direction of the Medical Superintendent.

The appointment (which will be determinable by one month's notice on either side) will be for a period of one year, and preference will be given to candidates who are reading for higher qualifications.

Forms of application may be obtained from, and must be returned duly completed to, the undersigned, with copies of three recent testimonials, not later than Thursday, 25th instant. Canvassing, either directly or indirectly, will disqualify.

C. S. JOHNSON, Town Clerk.

Town Hall, Reading, 5th May, 1939.

The University of Manchester.

PILKINGTON FELLOWSHIP IN CANCER RESEARCH.

The above Fellowship of the value of £300, tenable for one year, is offered for competition. The Fellow will be required to enter upon tenure in October, 1939.

Applications must be sent not later than June 30th to the Registrar, The University, Manchester 13, from whom further particulars may be obtained.

Derbyshire Royal Infirmary, Derby.
(General Hospital. 362 Beds.)

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Applications are invited for the post of HOUSE SURGEON for General Surgery (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

1st May, 1939.

Saint Mary's Hospitals, Manchester.

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for twelve months from the 1st July next at a salary at the rate of £100 per annum, with board and residence. Successful candidate will be eligible for the examination for the Diploma in Anæsthetics providing he has also held an appointment as House Physician or Surgeon for six months in a recognised general hospital.

Applications, with copies of three testimonials, to reach the undersigned not later than May 13th.

A. R. WISE, Superintendent and Secretary.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st July, 1939.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's Chambers, Bridlesmith Gate, Nottingham, on or before Friday, the 19th May. Selected candidates will be required to attend at the Hospital for a personal interview.

Royal Cornwall Infirmary, Truro.
(185 Beds.)

JUNIOR HOUSE SURGEON (Male) required with experience of Anæsthetics. Salary £120 per annum, rooms, board, and washing.

Apply with copies of three recent testimonials to the Secretary, of whom further particulars may be obtained.

W. E. GRENFELL, Hon. Secretary.

2nd May, 1939.

Warneford General Hospital,
LEAMINGTON SPA.
(164 Beds.)

Applications are invited from qualified registered Medical Practitioners for the post of SENIOR RESIDENT SURGICAL OFFICER. The appointment is for a period of twelve months which, on application, may be extended to two years

Salary £200 per annum, rising to £250 for second year; other fees estimated at £75 per annum, with board, residence, and laundry.

Candidates for the post should have held at least two resident House Surgeon's appointments and preferably possess an F.R.C.S. qualification.

Applications, stating age and full particulars, together with three testimonials, should be sent to the undersigned by Monday, 15th May, 1939.

EDWARD L. WIRGMAN, House Governor and Secretary.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

HOUSE SURGEON required for FRACTURE AND ORTHOPÆDIC DEPARTMENT. Duties to commence forthwith.

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The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided. Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

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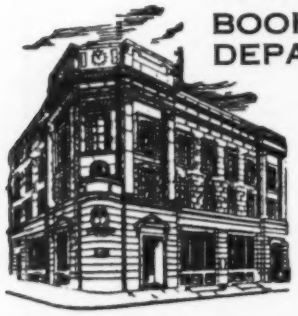

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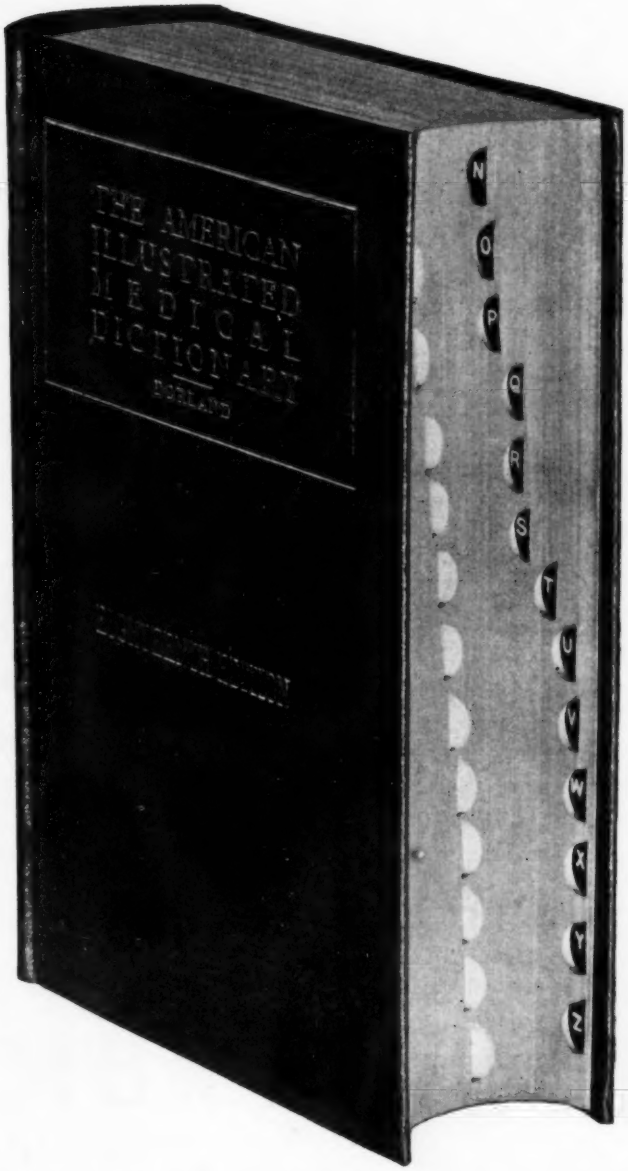

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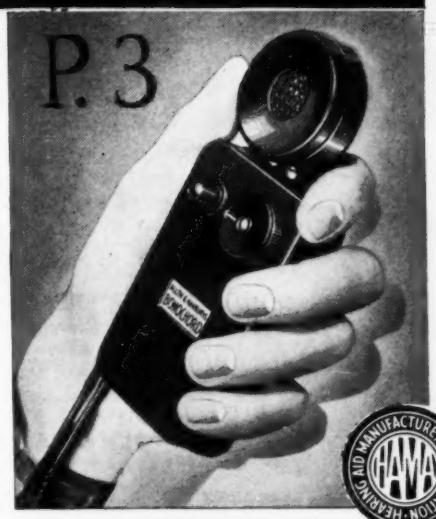

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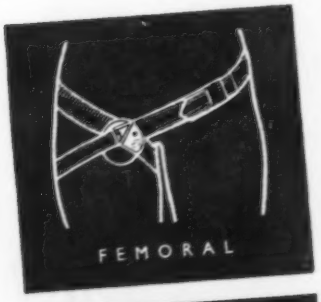

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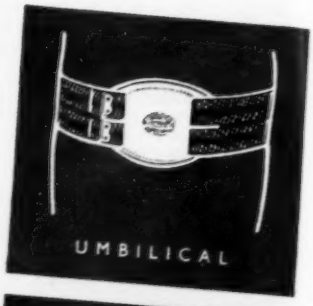

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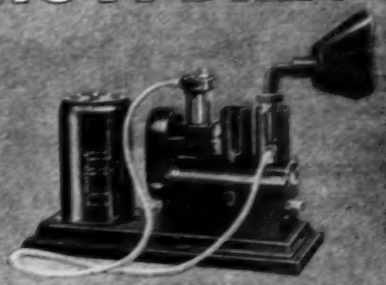

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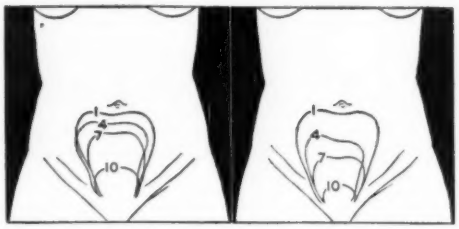

Fig. A
Ordinary uterine involution 1, 4, 7, and 10 days postpartum

Fig. B
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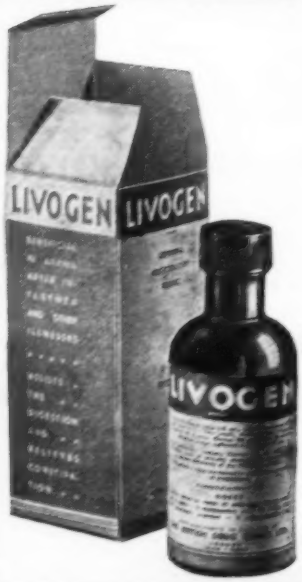

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Liquid Extract of Yeast	equivalent to 2 oz. of fresh yeast
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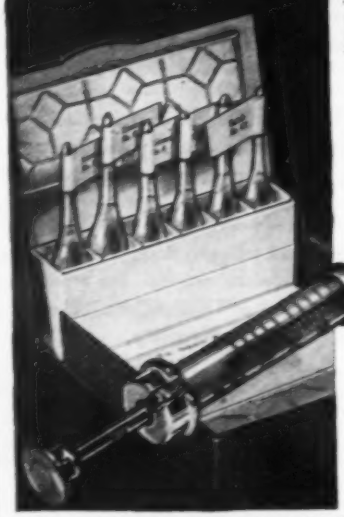

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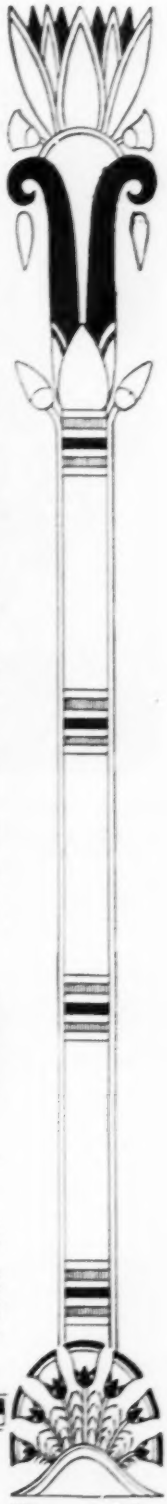

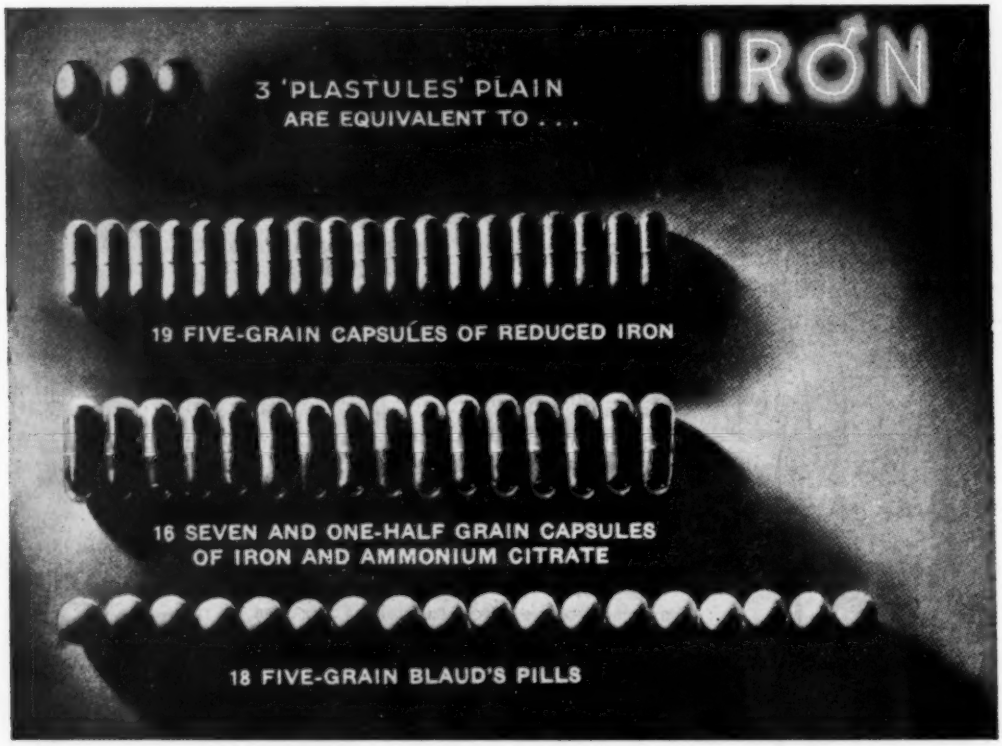

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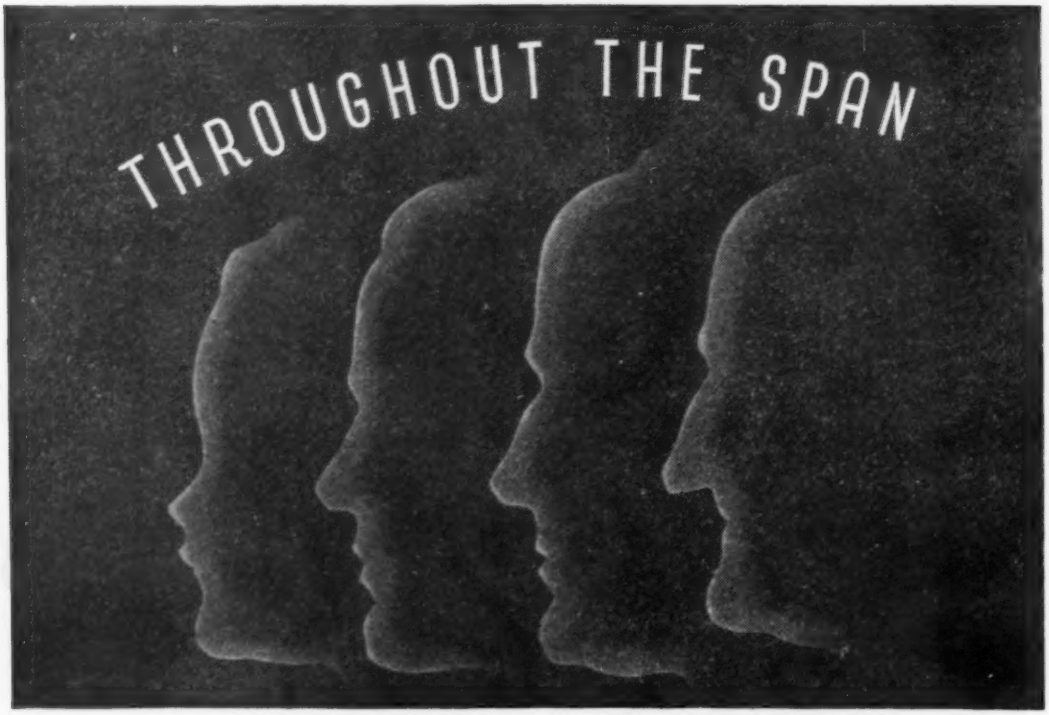

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Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2841 and 2842.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coine, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air. SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

HURSTWOOD PARK HOSPITAL AND BEECHMONT HOUSE

HAYWARDS HEATH, SUSSEX

The Committee of the Brighton Mental Hospital have provided accommodation for private patients of both sexes where the treatment of nervous disorders from the earliest stages is undertaken, e.g., psycho-therapy, occupational methods and hydro-therapy. In Hurstwood Park Hospital there are fully equipped surgical and dental units and bio-chemical and bacteriological laboratories. Hurstwood Park Hospital and Beechmont House are situated in pleasant woodland entirely separated from the main institution and have some of the finest views in Sussex.

Brochure on application to the Medical Superintendent. *Telephone: Haywards Heath 897.*

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344: or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (a) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (b) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of of alcoholism and drug addiction.

Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

Fully equipped gymnasium and indoor swimming pool under qualified instructors. Facilities under special recreational therapists for all indoor and outdoor games, including squash, badminton, table tennis, golf, cricket, football, hockey, lawn tennis, croquet, and bowling. The hospital has its own Church, Library, Cinema, and Café.

The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* **Dumfries 1119.**

NO MEMBER OF THE MEDICAL PROFESSION HAS ANY FINANCIAL INTEREST IN OR ANY CONNECTION WITH THE MANAGEMENT OF

The CLINIC

20, DEVONSHIRE PLACE, W.1
Telephone: WELbeck 4444 (20 lines).

IT provides accommodation for medical, surgical and maternity patients under the charge of any registered medical practitioner.

THE RETREAT, YORK

The Pioneer Hospital for the humane treatment of those suffering from Nervous and Mental Disorders, opened 1796.

This Hospital, administered by a Committee of the Society of Friends, combines what is best in the newer methods of investigation and treatment of nervous and mental illness with a sympathetic and friendly atmosphere.

The hospital, of 200 beds, admitted last year 110 patients, of whom 79 entered on a voluntary basis. It cannot be too widely known that much curative work is accomplished in modern mental hospitals today, and it is not generally appreciated that the recovery rate compares very favourably with that of General Hospitals.

For information and terms of admission, apply to
THE PHYSICIAN SUPERINTENDENT
Dr. Arthur Pool.

BAD - NAUHEIM

40 minutes from Frankfurt-on-Main. **From Victoria 18 hours**

Affections of the Heart and Blood-vessels, Rheumatism, Nervous Disorders, Catarrhs

The action of naturally-warm carbonic-acid springs with saline contents, combined with first-class medical service.
BAD-NAUHEIM possesses in its Balneological Institute and in the William G. Kerckhoff-Institute a combined place of research on affections of the heart and blood-vessels, which provides the theoretical foundations and the scientific guarantee for the treatment of these ailments.

GOLF, SHOOTING, Etc.

Special terms for physicians and their families

For all particulars apply to German Railways Information Bureau, 19, Regent Street, London, S.W.1, and Tourist Offices, or to Kurverwaltung Bad-Nauheim.

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

BARNWOOD HOUSE, GLOUCESTER.

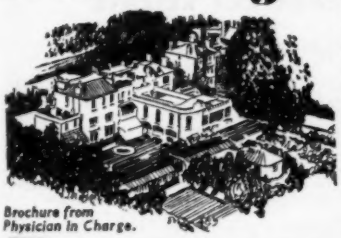
A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

Sunnyside



Brochure from Physician in Charge.

Delightfully situated at the foot of the South Downs. Specially caters for patients convalescent or requiring a restful holiday, combined with facilities for treatment by Massage, Foam and other baths, Electrical (including ultra-short wave diathermy) and other physical methods. Electric lift. Medical Practitioners cordially invited to visit

Restorium

HASSOCKS, - - SUSSEX 'Phone 103

(In association with fully licensed Downs Hotel)

Hampstead General Hospital,

Haverstock-hill, N.W.3.

Applications are invited from registered Medical Women for the resident post of CASUALTY SURGICAL OFFICER for six months, vacant 1st June, at the OUT-PATIENT DEPARTMENT, Bayham-street, Camden Town. Salary £100 per annum.

Applications on the prescribed form, with three testimonials, to be returned to the Secretary by 17th May.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of SURGICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act, and engaged in consulting practice only. Preference will be given to those holding the diploma of F.R.C.S. Eng.

The appointment is made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 15th May, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Monday, 15th May, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON, to commence duties on the 1st July, 1939.

Salary at the rate of £100 per annum. The appointment is for six months, and subject to rules, a copy of which may be obtained from the Secretary.

Applications to be made on a form, which will be supplied by the Secretary, together with three (copies only) testimonials, to be sent to the undersigned not later than the first post on Monday, 15th May, 1939.

CLEMENT COBBOLD, Secretary.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

A RESIDENT MEDICAL ASSISTANT AND CLINICAL PATHOLOGIST is required on the 1st July, 1939. Salary £125 per annum.

The appointment is tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

The morning duties will include those of an Out-patient Medical Registrar. The afternoons will be devoted to work in a section of the Pathological Department.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 29th May, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, 7th June, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

April, 1939.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of June, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 30th May, 1939.

MEDICAL STAFF, PRISON SERVICE (ENGLAND AND WALES)

Applications are invited for the post of Male MEDICAL OFFICER CLASS II in the above Service. Commencing salary £525 per annum, rising by annual increments to £800 per annum, with unfurnished house (free of rates) or an allowance in lieu. The post is pensionable.

Candidates must be fully qualified and registered. Preference will be given to those who have held House appointments; have had experience in mental diseases and psychological methods; and are between the ages of twenty-five and thirty-five years. The commencing salary for those holding the Diploma of Psychological Medicine will be £575 per annum.

Of the whole-time Prison Medical Officers 16 are Class II and 12 are Class I. Promotions from Class II to the rank of Medical Officer Class I, on a salary scale of £800 per annum, rising to £1000 per annum, with unfurnished house (free of rates) or an allowance in lieu, are made as vacancies occur. Three of the Senior Medical Officers receive an additional allowance of £50 per annum, and at certain prisons Medical Officers receive fees for giving evidence in the Criminal Courts.

Forms of application can be obtained from the Secretary (Staff Branch), Prison Commission, 68, Victoria-street, London, S.W.1.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from Medical Women of six months' or more experience for the post of IN-PATIENT OBSTETRIC ASSISTANT (Anæsthetic duties included). The appointment is for six months from 1st August, 1939.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 1st June, 1939.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

THIRD HOUSE PHYSICIAN

Duties to commence 1st August, 1939, for six months.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 1st June.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER

Duties to commence 1st July, 1939, for six months. Salary £150 per annum. Candidates must have held previous resident Hospital appointments.

The undersigned will supply application forms, which should be completed and returned to him, accompanied by copies of three recent testimonials, on or before the 1st June.

RICHARD T. BARTLEY, Secretary.

ROYAL NAVAL VOLUNTEER SUPPLEMENTARY RESERVE

MEDICAL SECTION

A Medical Section of the Royal Naval Volunteer Supplementary Reserve is being formed in order to maintain in time of peace lists of Medical Practitioners who are desirous of serving as Medical Officers, R.N.V.R., in the event of war but who are unable to be commissioned during peace as Medical Officers. Enrolment will not however preclude subsequent entry into the R.N.V.R. in suitable cases on the occurrence of vacancies.

Intending applicants should be under thirty-five on enrolment. Only a limited number of vacancies are available at present.

Copies of the Regulations and Forms of Application may be obtained from the Medical Director-General of the Navy, Admiralty, London, S.W.1.

Princess Louise Kensington Hospital

FOR CHILDREN, St. Quintin-avenue, North Kensington, W.10. (Ladbroke 0133).

The Board of Management invite applications for the post of HONORARY ASSISTANT PHYSICIAN, with Beds. Applicants must be graduates of a University and must hold the M.R.C.P. (London), and the successful candidate will be required to see Out-patients.

Applications, accompanied by copies of three testimonials, should be sent to the undersigned at the Hospital, from whom any further information can be obtained, and should reach him not later than Saturday, 27th May, 1939.

H. J. ELBY, Secretary.

Borough of Bermondsey.

ASSISTANT MEDICAL OFFICER.

Applications are invited from fully qualified and registered Medical Practitioners for the position of Assistant Medical Officer. The salary will be at the rate of £600 per annum, rising by two annual increments of £50 to £700 per annum, and be subject to deductions under the Council's Superannuation Acts. The person appointed will be required to devote the whole of his time to the work of the Council and to act under the supervision of the Medical Officer of Health. Particulars of duties, which will include engaging in public health propaganda work, can be had on application to the Medical Officer of Health. The selected candidate will be required to pass satisfactorily a medical examination.

Forms of application may be obtained from the undersigned, to whom applications must be delivered not later than first post on Wednesday, 31st May, 1939.

Canvassing directly or indirectly will disqualify.

FRANCIS J. R. MOUNTAIN, Town Clerk.

Municipal Offices, Spa-road, Bermondsey, S.E.16,
6th May, 1939.

St. Mary's Hospital, W.2.

MEDICAL OFFICER in Charge of ELECTRO-THERAPEUTIC DEPARTMENT.

Applications are invited for the above vacancy on the Honorary Medical Staff of the Hospital.

Candidates are requested to forward their applications, with copies of testimonials, not exceeding six in number, to reach the undersigned on or before Monday, 5th June, 1939.

Candidates must be Fellows or Members of one of the Colleges of Physicians in the United Kingdom, or possess a medical degree of a recognised University. The appointment is for five years, at the expiration of which term the holder will be eligible for re-election.

W. PARKES, House Governor.

West End Hospital for Nervous DISEASES.

IN-PATIENT DEPARTMENT: Gloucester Gate, Regent's Park, N.W.1.
OUT-PATIENT DEPARTMENT AND SECRETARY'S OFFICE: 73, Welbeck-street, W.1.

The Committee of Management invites applications for the following appointments:—

HONORARY ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons, England.

Fifteen copies of the application, with three recent testimonials, will be required. Further particulars should be obtained from the undersigned not later than Monday, May 22nd.

HONORARY PSYCHOTHERAPISTS (with experience) for the Out-patient Department. Candidates must hold a degree or diploma in Psychological Medicine.

HONORARY CLINICAL ASSISTANTS (with experience) for the Child Guidance Department.

Applications, with three recent testimonials, should be addressed to the undersigned, from whom further particulars can be obtained, not later than Monday, May 22nd.

J. P. WETENHALL, Secretary and House Governor.

Chelsea Hospital for Women,

Arthur-street, S.W.3.

JUNIOR HOUSE SURGEON (Male).

Applications are invited for the above post which will be vacant on July 1st. The appointment is for six months at a salary of £100 per annum, together with board, residence, and laundry.

At the expiration of this term he will be expected to proceed to the Senior post for six months at a salary of £120 per annum.

Candidates should forward their applications, giving full particulars and accompanied by copies of three recent testimonials, to the undersigned not later than Friday, 26th May, 1939.

GEO. W. COOLING, Secretary.

Chelsea Hospital for Women

CONVALESCENT HOME, ST. LEONARDS-ON-SEA.
(32 Beds.)

The post of MEDICAL OFFICER to this Convalescent Home will be vacant on July 1st.

Applications are invited from registered Medical Practitioners. The post is non-resident and carries a small honorarium.

Particulars of duties can be obtained from the undersigned, to whom applications, accompanied by copies of testimonials, must be sent on or before Friday, 26th May, 1939.

GEO. W. COOLING, Secretary, Chelsea Hospital for Women, London, S.W.3.

The Medical College of St. Bartholomew's

HOSPITAL, E.C.1.

Applications are invited for the following two posts at St. Bartholomew's Hospital Medical College:—

(1) LECTURER IN PUBLIC HEALTH;
(2) LECTURER ON FORENSIC MEDICINE.

Further information may be obtained from the Dean, to whom applications must be sent not later than Saturday, June 10th, 1939.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

Royal College of Surgeons of England.

ELECTION TO THE COURT OF EXAMINERS.

Notice is hereby given that the Council, on the 31st July, 1939, will elect a Member of the Court of Examiners. The retiring Examiner is eligible, and offers himself for re-election.

Fellows of the College desirous of becoming candidates for the office must make application to the Secretary on or before Tuesday, 30th May.

KENNEDY CASSELS, Secretary.

13th May, 1939.

Queen Charlotte's Maternity Hospital,

Marylebone-road, N.W.1.

There is a vacancy for an OBSTETRIC SURGEON to IN-PATIENTS at Queen Charlotte's Hospital. The Senior Obstetric Surgeon to Out-patients is a candidate for the post. In the event of his election there will be a vacancy for Obstetric Surgeon to Out-Patients.

The Committee of Management invite applications for the post of Obstetric Surgeon to Out-Patients.

Candidates must not be over forty years of age, and must be Graduates in Medicine of a University in the British Empire and Fellows or Members of the British College of Obstetricians and Gynæcologists and Fellows of the Royal College of Surgeons of England.

The successful candidate will be expected to reside in quarters provided by the Hospital, adjacent to the new building at Ravenscourt Park, and act as the Resident Obstetric Surgeon when the new building is opened. Particulars of duties, &c., can be obtained from the Secretary-Superintendent.

Applications should be sent to the undersigned with ten copies of three testimonials not later than the 25th May.

H. B. STOKES, Secretary-Superintendent.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Two HOUSE PHYSICIANS and One HOUSE SURGEON are required. Duties to commence on the 1st July, 1939.

The appointments are tenable for six months. Salaries at the rate of £50 per annum.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 5th June, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th June, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

May, 1939.

Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from the 12th June (first two months in the Casualty and Out-patient Department). Salary at the rate of £120 per annum, with board and residence.

Applications, stating age, experience, and qualifications, accompanied by copies of three testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on Wednesday, 24th May.

W. H. SIDNELL, House Governor.

5th May, 1939.

Hackney Borough Council.

APPOINTMENT OF CONSULTANT GYNÆCOLOGIST (Part-time).

Applications are invited from registered Medical Practitioners for appointment as Consultant Gynæcologist at a special clinic which the Council proposes to establish for the treatment of ailments of women. Membership of the College of Obstetricians and Gynæcologists would be an advantage.

A fee of two and a half guineas will be paid for each attendance of the Consultant Gynæcologist at the clinic, which will be open on one half-day each week.

The appointment is of a temporary nature and will be subject to one month's notice on either side.

Applications, endorsed "Consultant," should be addressed to the undersigned and should be received by Monday, 5th June, 1939.

R. H. R. TEE, Town Clerk.

The Town Hall, Mare-street, Hackney, E.8.

The Princess Beatrice Hospital,

Earl's Court, London, S.W.5.
(General Hospital. 85 Beds.)

RESIDENT SURGICAL OFFICER (Male) required for a period of six months in the first place from 1st July, 1939, eligible for re-election. Salary at the rate of £200 per annum, with board, residence and laundry (together with £25 to cover all duties during the six months relating to Private Patients).

Previous resident experience and F.R.C.S. essential.

Applications, with copies of three recent testimonials, should be received by the Secretary not later than 9 A.M. Tuesday, May 23rd, 1939.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

*(a) NEW END HOSPITAL, Hampstead, N.W.3.—Duties mainly surgical.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

*(b) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19.—General medical duties. (3 positions.)

*(c) DULWICH HOSPITAL, East Dulwich-grove, S.E.22.—Medical and obstetrical duties.

(d) PADDINGTON HOSPITAL, Harrow-road, W.9.—General medical duties.

(e) ST. ALFEGE'S HOSPITAL, 48, Vanbrugh-hill, Greenwich, S.E.10.—Casualty officer.

(f) ST. LUKE'S HOSPITAL, Sydney-street, S.W.3.—General medical duties. (Male applicants only.)

*†(g) ST. NICHOLAS' HOSPITAL, 79, Tewson-road, Plumstead, S.E.18.—Casualty officer.

(h) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1.—Medical duties.

* No accommodation for a woman.

† Appointee will be required to be non-resident.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 22nd May.

Canvassing disqualifies.

London County Council.

ASSISTANT MEDICAL OFFICERS (Men or Women) required at Mental Hospitals and Institutions for Mental Defectives.

Candidates (under thirty-five years of age) must (i) be registered to practise both in medicine and surgery in England, (ii) be of at least one year's professional standing, and (iii) have held residential position in general hospital for six months or comparable general experience. Salary £470 a year, rising by £25 to £570 (additional allowance of £50 to holders of D.P.M.). No emoluments. Charges for board, lodging, &c. (at present £2 9s. a week) if required to be resident. Pensionable. Marriage terminates service in case of women.

For application form, returnable by 31st May, 1939, send stamped addressed foolscap envelope to Chief Officer (B/A), Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

Canvassing disqualifies.

Queen Mary's Hospital for the East End,

Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts:—

	Salary	Period
HOUSE PHYSICIAN (1) ..	£120 ..	6 months.
HOUSE SURGEON (2)	£120 ..	6 ,,
OUT-PATIENT OFFICER ..	£150 ..	6 ,,
OBSTETRIC HOUSE SURGEON	£110–£130 ..	6 ,,

The appointments will date from the 1st of July, 1939, and will be for six months except in the case of the Obstetric House Surgeon. This appointment will be for three months as Junior at £110 per annum, and for three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 beds, including 50 for Maternity.

Candidates, who must be single, should send applications, with copies of testimonials, to the undersigned, not later than Wednesday, the 24th of May, 1939.

RAPHAEL JACKSON, Major, Secretary.

University of London, King's College.

The Delegacy will require in October next the services of a LECTURER IN PHYSIOLOGY. Salary £350. Applicants should possess a Medical degree, and preference will be given to those with special qualifications in Pharmacology.

Candidates should send in their applications, accompanied by three copies of three recent testimonials, not later than 30th May, to the Secretary, King's College, Strand, W.C.2, from whom particulars and forms of application may be obtained.

Miller General Hospital,

Greenwich-road, S.E.10.

Applications are invited for the following posts:—

HOUSE PHYSICIAN. Male; unmarried. Salary £100 per annum.

HOUSE SURGEON. Male; unmarried. Salary £100 per annum.

Board, residence, and laundry are provided.

TWO CASUALTY OFFICERS. Male; part-time; one for morning session and one for afternoon. Salary £150 per annum, non-resident. Fuller particulars on application.

The appointments are for six months from 1st July, 1939. There are five Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 22nd May, 1939.

29th April, 1939.

Borough of Wembley.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH (Male).

The Borough Council invite applications for the post of Deputy Medical Officer of Health (Male)—whole-time appointment.

The salary will be at the rate of £700 rising, subject to satisfactory service, by annual increments of £25 to £850 per annum. There will be, in addition, a car allowance of £50 per annum.

The possession of a Diploma in Public Health or similar qualification is essential. Candidates must be capable of assuming full medical responsibility in the public health department in the absence of the Medical Officer of Health so that general public health experience is necessary.

The duties will include both clinical and administrative responsibility in the maternity and child welfare services and candidates must, subsequent to qualification, have had special experience of practical midwifery and ante-natal work. He will be required, also, to assist in the casualty services of The Air-Raid Precaution scheme and to undertake any such duties as the Medical Officer of Health, with the consent of the Council, may assign from time to time.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination.

Forms of application and particulars of the duties and terms of appointment may be obtained from the Medical Officer of Health, Public Health Department, Forty-avenue, Wembley, and must reach me not later than noon on Friday, 26th May, 1939.

Canvassing in any form will disqualify candidates.

KENNETH TANSLEY, Town Clerk.

Town Clerk's Office, Wembley, May 10, 1939.

Saint Pancras Dispensary,

39, Oakley-square, N.W.1.

The Committee propose, at their meeting on Tuesday, June 6th, 1939, to elect an HONORARY PHYSICIAN to attend on Thursday afternoons. Preference will be given to a candidate who is on the staff of a general hospital in the N.W.1, W.1, or W.C.1 postal areas.

Applications, with testimonials, should reach the Honorary Secretary, GERVEYS DEW, Esq., 2, Endsleigh-street, W.C.1, by Tuesday, May 30th, 1939.

Central London Throat, Nose and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

ASSISTANTS IN THE OUT-PATIENT DEPARTMENT.

There is a vacancy for a SECOND ASSISTANT to attend on Mondays at 2 P.M.

The duties are to assist the Surgeons in seeing the patients and the post is an honorary one.

Applications, which may be for periods of three, six, or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Princess Louise Kensington Hospital

FOR CHILDREN, St. Quintin-avenue, North Kensington, W.10. (Ladbroke 6133).

CLINICAL ASSISTANT required for Out-patient Department session (Medical) on Thursday mornings.

Applications, with details of qualifications and copies of two recent testimonials, should be sent as soon as possible to the undersigned from whom any further information can be obtained.

H. J. ELEY, Secretary.

Samaritan Free Hospital for Women,

Marylebone-road, N.W.1.

PATHOLOGIST.

Applications are invited for the post of Pathologist (non-resident). This appointment in the first instance will be on a part-time basis. Salary at the rate of £250 per annum.

Applications, with copies of testimonials, should reach the undersigned at the Hospital not later than Saturday (noon), June 3rd, 1939.

G. H. HAWKINS, Secretary.

Woolwich and District War Memorial

HOSPITAL, Shooters-hill, London, S.E.18. (General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for the post of SURGICAL REGISTRAR for a period of twelve months from the 1st of June, 1939.

An honorarium of £100 per annum will be paid in respect of this appointment, which will be renewable for a further year, if approved by the Board of Management.

Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of not more than three recent testimonials, should be addressed to the undersigned, to reach him on or before May the 22nd. Short-listed candidates will be invited to meet the Appointments Committee on Friday, May 26th, 1939.

R. S. G. HUTCHINGS, Secretary.

Metropolitan Borough of Finsbury.

TEMPORARY TUBERCULOSIS OFFICER required for a period of approximately three months, to commence duties early in June; salary £50 per month. Applicants must be qualified in accordance with Local Government (Qualifications of Medical Officers) Regulations, 1930.

Applications, with details of qualifications and experience endorsed "T.B. Officer," addressed to the undersigned must be received not later than 29th May, 1939.

J. E. ARNOLD JAMES, Town Clerk.

Town Hall, Rosebery-avenue, Finsbury, E.C.1.
9th May, 1939.

London Hospital, E.1.

Applications are invited for the post of ANÆSTHETIST to the DENTAL DEPARTMENT. Attendance Mondays at 2 P.M. Honorarium £25 per annum.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than on Saturday, 20th May.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-RAY DEPARTMENT.

Candidates must be fully qualified medically.

Experience in radiology essential. Honorarium £100 per annum. Attendance five half-days weekly.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than Saturday, 20th May, 1939.

ARTHUR G. ELLIOTT, House Governor.

Metropolitan Hospital,

Kingsland-road, London, E.8.

Applications are invited for the post of CASUALTY OFFICER AND RESIDENT ANÆSTHETIST (Male). Salary at the rate of £100 per annum, with board, residence, and laundry. Duties to commence 1st June.

Candidates must possess a registered medical and surgical qualification of the United Kingdom.

Application forms should be obtained and returned to the undersigned not later than May 20th.

FRANK JENNINGS, House Governor and Secretary.

St. Paul's Hospital for Urological and SKIN DISEASES,

Endell-street, London, W.C.2.

Applications are invited for the post of Male HOUSE SURGEON. Candidates must be qualified and registered. Salary £100 per annum, with board-residence. The appointment is for three months in the first instance, and the holder will later be eligible for the post of Resident Medical Officer. During his appointment as House Surgeon the duties involve work in the surgical wards and in the out-patient department.

Applications, with copies of recent testimonials, to be submitted not later than the 22nd May. The successful candidate will be required to take up duty about the 9th June.

J. P. KEY CHESLETT, Secretary.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

SURREY COUNTY SANATORIUM, MILFORD. (300 Beds.)

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (either sex) for the appointment of Junior Assistant Medical Officer at the County Sanatorium, Milford, near Godalming. Resident experience in general hospital essential. Appointment is for six months, renewable for further period of six months. Salary £250 per annum, together with full residential emoluments. Appointment is subject to the Staffing Regulations of the County Council.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be sent to the Medical Superintendent, Surrey County Sanatorium, Milford, Surrey, to reach him not later than Wednesday, the 17th May, 1939.

DUDLEY AUCKLAND, Clerk of the Council.

County Hall, Kingston-on-Thames, 5th May, 1939.

Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st July, 1939.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's Chambers, Bridlesmith Gate, Nottingham, on or before Friday, the 19th May. Selected candidates will be required to attend at the Hospital for a personal interview.

Park Prewett Mental Hospital,

Near BASINGSTOKE, HANTS.
(1570 Beds.)

JUNIOR ASSISTANT MEDICAL OFFICER, Male, single, required. Salary £350, rising to £450, in addition to emoluments consisting of board, furnished apartments, laundry, and attendance, valued for superannuation purposes at £150. £50 extra if in possession or on obtaining Diploma in Psychological Medicine. Previous Mental Hospital service not essential, but preference given to candidates who have had a General Hospital appointment.

Application to be made on form which will be supplied on request to the Medical Superintendent.

Applications to be in by 27th May.

Leeds Jewish Hospital.

Wanted, July, 1939, RESIDENT MEDICAL OFFICER (Male). Candidates must be fully qualified.

Applications, stating qualifications, experience, married or single, should be sent to the undersigned by Thursday, June 1st.

LILY CURITZ, Secretary.

The Corbett Hospital, Stourbridge.

(100 Beds and Special Departments.)

Applications are invited for the following posts which will become vacant on the 1st July next.

HOUSE PHYSICIAN at a salary at the rate of £125 per annum, with board, laundry, &c.

HOUSE SURGEON at a salary at the rate of £100 per annum, with board, laundry, &c.

The appointments will be for a period of six months, terminable by six weeks' notice.

The Hospital has a Specialist Visiting Staff and Resident Surgical Officer.

Applications, giving full details of qualifications, age, and experience, accompanied by three copies of testimonials, should be addressed to the undersigned forthwith.

W. G. H. WESTON, Secretary.

Royal Berkshire Hospital, Reading.

Applications are invited for the post of ASSISTANT to the PATHOLOGIST. Salary £350 per annum. (Non-Resident.)

Applications, stating age, qualifications, previous experience, and accompanied by copies of three recent testimonials, to be sent to the undersigned on or before 31st May, 1939.

H. R. RYAN, Secretary and House Governor.

Royal Berkshire Hospital, Reading.

The Board of Management invite applications for the appointment of HONORARY OBSTETRICIAN AND GYNÆCOLOGIST and HONORARY ASSISTANT OBSTETRICIAN AND GYNÆCOLOGIST.

Candidates must be Fellows of one of the Royal Colleges of Surgeons of the British Empire or Surgical Graduates of one of the Universities of the British Empire or Fellows or Members of the Royal College of Obstetricians and Gynæcologists, and their names entered on the Medical Register.

The elected candidates will be appointed for the period ending on the third Tuesday in January, 1940, and will be eligible for re-election.

Canvassing on the part of a candidate or on his behalf will disqualify him.

Candidates are required to provide seventy-two copies of their application and testimonials, which must be addressed to the Secretary and reach him not later than 9 A.M. on June 8th, 1939.

No testimonials will be required from candidates who are members of the existing Medical Staff.

The election will be held on June 20th, 1939.

By Order,
H. E. RYAN, Secretary and House Governor.

Essex County Hospital, Colchester.

(174 Beds.)

Wanted end of May, a HOUSE PHYSICIAN (Male). Salary £150 per annum, with board, washing, and residence.

Applications, with three recent testimonials, to be sent by Thursday, the 18th May, to—

THE SECRETARY.

Royal Sussex County Hospital,

BRIGHTON.
(272 Beds.)

Required for the 1st July, 1939—

One HOUSE PHYSICIAN (Male).

One CASUALTY HOUSE SURGEON (Male).

Salary respectively £150 and £120 per annum, with board, residence, and laundry.

Candidates must hold Medical and Surgical qualifications of the British Empire, and be duly registered under the Medical Acts.

They must be unmarried, and when elected under thirty years of age.

Applications, with copies of recent testimonials, should reach the undersigned by the 31st May, 1939.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

Manchester Royal Infirmary.

HONORARY ASSISTANT RADIOLOGIST.

The Board of Management invite applications for the above appointment.

Candidates must be graduates in Medicine of a British or Irish University, or Fellows, Members, or Licentiates of one of the Royal Colleges of the United Kingdom, and must hold a recognised diploma in radiology.

Candidates are required to forward Diplomas, original testimonials, and a certificate of age with their applications addressed to the Secretary, on or before Wednesday, 31st May, 1939, from whom also a copy of the Rules can be obtained.

Candidates are required to furnish forty-five copies of their application and dated testimonials addressed to the Secretary for distribution prior to the meeting of the Committee.

Canvassing directly or indirectly is forbidden, and the Committee reserve to themselves the right, on proceeding to election, to take into consideration any complaint that canvassing on behalf of any candidate has taken place.

By Order,
F. J. CABLE,
General Superintendent and Secretary.

29th April, 1939.

Manchester Royal Infirmary.

HOUSE SURGEON—AURAL, GYNÆCOLOGICAL, AND OPHTHALMIC DEPARTMENTS.

The Board of Management of the Manchester Royal Infirmary invite applications for the above appointment, now vacant. Applicants must hold a Medical and Surgical qualification and be registered.

The appointment is for six months, subject to the By-laws as to notice, &c. Salary at the rate of £50 per annum, with board-residence and allowance for laundry.

Applications, stating age, to be sent to the Chairman of the Medical Board not later than 22nd May, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.

May, 1939.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)

Recognised under F.R.C.S. regulations.

Applications are invited for the post of HOUSE SURGEON for General Surgery (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

1st May, 1939.

Royal Cornwall Infirmary, Truro.

(185 Beds.)

JUNIOR HOUSE SURGEON (Male) required with experience of Anæsthetics. Salary £120 per annum, rooms, board, and washing.

Apply with copies of three recent testimonials to the Secretary, of whom further particulars may be obtained.

W. E. GRENFELL, Hon. Secretary.

2nd May, 1939.

Walsall General Hospital.

The Committee invite applications from Men for the post of HOUSE SURGEON. Must have had previous experience in the administration of Anæsthetics.

Candidates, who must be registered under the Medical Acts, must produce three recent testimonials. The appointment will be for six months. Salary at the rate of £150 per annum. The Hospital contains 170 Beds and is equipped in all special departments.

Applications must be sent at once to the undersigned. The successful applicant will be desired to take up his duties on 1st June.

WALTER FRANCOMBE, House Governor.

1st May, 1939.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

CANWELL HALL BABIES' HOSPITAL.
(84 Beds.)

A Woman Resident Medical Officer is required for a period of six months. Duties to commence on 5th of June.

Applicants should have had previous experience as a Resident House Physician, preferably in a Children's Hospital.

Salary £250 per annum, with board and laundry.

Applications, endorsed "Resident Medical Officer," and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before May 23rd.

Middlesex County Council.

REDHILL COUNTY HOSPITAL,
EDGWARE, MDX.

VISITING OPHTHALMIC SURGEON with F.R.C.S. or degree or diploma in Ophthalmology. One session weekly at 3 guineas per session, and charge of four ophthalmic beds.

CENTRAL MIDDLESEX COUNTY HOSPITAL,
Acton Lane, Willesden Junction, N.W.10.

VISITING OPHTHALMOLOGIST with F.R.C.S. or degree or diploma in Ophthalmology. Weekly session at 3 guineas per session.

OBSTETRICIAN (Grade I). Registered Medical Practitioner of high qualifications and professional attainments having devoted time chiefly to practice of obstetrics and gynæcology. Whole-time duties under supervision of Medical Superintendent may include teaching students, with such other duties as the Council may direct. Salary £1000–£50–£1500 per annum is inclusive, and any fees received must be paid to County Council. Appointment subject to 3 months' notice. Medical examination in connexion with pensionable staff.

A new Maternity Department (60 Beds) to be opened shortly.

ASSISTANT PATHOLOGIST. Registered Medical Practitioner with extensive post-graduate experience in pathological work, especially in morbid anatomy and histology. Whole-time duties under direction of Medical Superintendent may include teaching students with such other duties as the Council may direct. Salary £650–£25–£800 per annum is inclusive and any fees received must be paid to the Council. Appointment subject to 3 months' notice. Medical examination in connexion with pensionable staff.

Resident ASSISTANT MEDICAL OFFICER (ANÆSTHETIST). Registered Medical Practitioner, having held resident appointments in general hospitals, preferably surgical, and skilled in administration of anæsthetics by modern methods, required to administer anæsthetics and for such other duties as may be allotted, under direction of Medical Superintendent. Salary £400–£25–£475 per annum, with board, lodging, and laundry. Appointment for four years, subject to one month's notice. Medical examination in connexion with pensionable staff. In special cases may be retained on established staff at £500 per annum (maximum).

Resident CASUALTY MEDICAL OFFICER.* Registered Medical Practitioner with considerable all-round experience having held posts as House Physician and Surgeon in general hospitals. Whole-time duties under direction of Medical Superintendent include dealing with casualties and admissions to hospital, with such other duties as may be required. Salary £350 per annum, with board, lodging, and laundry.

Resident JUNIOR ASSISTANT MEDICAL OFFICER.* Registered Medical Practitioner having held resident appointments in general hospitals. Whole-time duties under direction of Medical Superintendent mainly obstetrical and gynæcological. Qualifying appointment for M.C.O.G. and D.C.O.G. Salary £250 per annum, with board, lodging, and laundry.

* Appointment, subject to medical examination and one month's notice, primarily for six months, but may be extended for further six. Preservation of pension rights under certain acts.

Written applications to be accompanied by completed Form "A" obtainable on request from the undersigned.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.

Guildhall, Westminster, S.W.1.

The Royal Eastern Counties' Institution

FOR THE MENTALLY DEFECTIVE,
COLCHESTER.

ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the above post from unmarried Male Medical Practitioners, not over thirty-six years of age. Total beds over 1700.

The medical man appointed will be stationed at the new extension, Turner Village, and will be required gradually to assume responsibility for administrative work connected with that extension, which has at present over 400 beds. For that reason the commencing salary has been fixed at £400 per annum, together with furnished apartments, board, laundry and attendance. No deductions. Previous specialisation in Mental Deficiency is not essential.

A Research Department, with a Medical Director and other staff, working under the Medical Research Council and the Rockefeller Foundation, is attached to the Institution. New laboratories are completed, and there is every facility for research work.

Apply before May 16th, giving age, nationality, full details of qualifications, and copies of testimonials, to the Medical Superintendent, Royal Institution, Colchester.

Southend-on-Sea General Hospital.

(250 Beds.) 8 Residents.

Applications are invited from Male candidates for the three posts of:—

HOUSE PHYSICIAN.
HOUSE SURGEON.
CASUALTY OFFICER (with duties in Orthopædic Department and Fracture Clinic).

Each appointment is for six months, from 1st June. Salary, £100 per annum with board, residence, &c.

Applications, with copies of two recent testimonials, should be sent to the undersigned not later than 16th May, 1939.

P. H. CONSTABLE, Secretary.

County Borough of Reading.

BATTLE HOSPITAL.

APPOINTMENT OF RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer (Male) at the above Hospital, at a salary of £300 per annum, with board, residence, &c. Candidates must be single. The selected candidate will be required to work under the direction of the Medical Superintendent.

The appointment (which will be determinable by one month's notice on either side) will be for a period of one year, and preference will be given to candidates who are reading for higher qualifications.

Forms of application may be obtained from, and must be returned duly completed to, the undersigned, with copies of three recent testimonials, not later than Thursday, 25th instant. Canvassing, either directly or indirectly, will disqualify.

C. S. JOHNSON, Town Clerk.

Town Hall, Reading, 5th May, 1939.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

HOUSE SURGEON TO OPHTHALMIC AND EAR, NOSE, AND THROAT DEPARTMENT.

Applications are invited from fully qualified men for the above post.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

8th May, 1939.

Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).

Wanted, a FIRST HOUSE SURGEON, Male, unmarried. Candidates must be duly qualified and registered. The appointment will be for a period ending 31st October, 1939. Salary, including all services required in connection with the Paying Patients' Ward, £200 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer, House Physician, two House Surgeons, and Casualty Officer. The Hospital contains Maternity and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned to whom applications, stating age and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary.

1st May, 1939.

Hertford County Hospital.

(171 Beds.)

DEPARTMENT OF PHYSICAL MEDICINE.

Applications are invited for the post of HONORARY CONSULTING PHYSIO-THERAPEUTIST to the above department.

Applications, together with copies of testimonials, should be made by Monday, 22nd May, 1939, to the undersigned.

PERCY G. BROOKS, Secretary.

Hertford County Hospital.

(171 Beds. 3 Residents.)

Applications are invited for the post of HOUSE SURGEON (Male). Salary £200 per annum, with board, residence, and laundry. Duties to commence 1st June, and the appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned not later than Monday, 22nd May instant.

PERCY G. BROOKS, Secretary.

Royal Isle of Wight County Hospital,

RYDE, ISLE OF WIGHT.

HOUSE PHYSICIAN wanted, with care of Casualty and Special Departments for June 1st, lady, unmarried, qualified and registered. Salary at the rate of £150 a year, with board, residence, and laundry.

Apply, stating age and nationality, enclosing copies of testimonials to Secretary, before Wednesday, May 17th. Return third class fare for selected candidates.

A. S. GORDON, Secretary.

Warneford Hospital for Mental

DISORDERS, OXFORD.

LOCUM TENENS (Male) wanted for three months from 14th June. Salary 7 guineas per week with board, lodging, and laundry. Psychiatric experience an advantage.

Apply as soon as possible to the Physician Superintendent.

General Hospital, Nottingham.
(389 Beds.)

A RESIDENT ANÆSTHETIST (Male) is required at the above Institution. The appointment is for six months, with salary at the rate of £150 a year, with board, residence, and laundry.

Candidates are desired to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned.

Duties to commence on or about June 1st, 1939.

HENRY M. STANLEY, House Governor and Secretary.

County Borough of St. Helens.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the above appointment.

The successful candidate will be required to devote most of his time to work in connexion with the Casualty Services of the Council's Air Raid Precautions Scheme, but he may be required to undertake any other work under the Health Services as may be directed by the Medical Officer of Health. A knowledge of casualty organisation and of first-aid training is a desirable qualification.

The present intention is that the appointment shall be for a period of six months only, terminable by either party by one month's notice, but the successful candidate will be required to pass a medical examination and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The salary will be at the rate of £500 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of three recent testimonials, not later than May 20th, 1939.

Canvassing members of the Council or Committees of the Corporation will be a disqualification.

FRANK HAUXWELL, Medical Officer of Health.

Town Hall, St. Helens, 5th May, 1939.

Kent County Ophthalmic and Aural
HOSPITAL, MAIDSTONE. (109 Beds.)

HOUSE SURGEON to the OPHTHALMIC DEPARTMENT.
HOUSE SURGEON to the EAR, NOSE AND THROAT DEPARTMENT

Applications are invited for the above posts, which will be vacant shortly. Salary for each post at the rate of £200 per annum, with board, residence, and laundry.

Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have had experience in the respective specialities. The Hospital is recognised by the Examining Board for the D.O.M.S. and the D.L.O.

Applications, stating age and qualifications, together with copies of three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, F.H.O.A., Secretary.

MINISTRY OF AGRICULTURE AND FISHERIES

FOOT-AND-MOUTH DISEASE RESEARCH COMMITTEE

Applications are invited for the post of SCIENTIFIC SUPERINTENDENT of research on foot-and-mouth disease at the above Committee's EXPERIMENTAL RESEARCH STATION, PIRBRIGHT, WOKING, SURREY. The salary attached to the post is £1000 per annum (inclusive), rising by annual increments of £50 to £1200 per annum (inclusive), with superannuation under the Federated Superannuation Scheme for Universities. Applicants should be of British nationality, preferably graduates of a British University and not more than fifty-five years of age. They should possess a recognised veterinary qualification, &c., and preferably should have had practical experience of the management of farm animals under experimental conditions. They should have had considerable experience of pathological research, and in particular of virus work.

Forms of application may be obtained from the Secretary, Foot-and-Mouth Disease Research Committee, Ministry of Agriculture and Fisheries, 10, Whitehall-place, London, S.W.1.

Candidates resident outside the United Kingdom may apply without obtaining an application form, but should furnish full particulars concerning their nationality, age, education, academic and professional qualifications, and research experience; they should also furnish the names of two referees and submit copies of testimonials.

Applications must be received on or before 23rd June, 1939.

St. Andrew's Hospital, Northampton.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER from registered Medical Practitioners.

Candidates should have previous Mental Hospital experience and a Diploma in Psychological Medicine is essential.

The commencing salary will be £625, rising by two annual increments of £25 to a maximum of £675 per annum, together with unfurnished residence.

Applications, stating age, qualifications, experience, &c., together with three copies of recent testimonials, should be sent to the Medical Superintendent not later than May 24th.

County Borough of Blackburn

PUBLIC ASSISTANCE DEPARTMENT.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from Medical Practitioners (Male) for the appointment of a Resident Junior Assistant Medical Officer at QUEEN'S PARK HOSPITAL AND INSTITUTION.

The staff consists of a Resident Medical Officer, a Resident Assistant Medical Officer, a Consulting Surgeon, a Laboratory Assistant, and an X Ray Attendant.

There is a separate Infirmary, a separate Mental Block, and a separate Hospital for Children, and there is opportunity for experience in all departments, including Medical, Surgical, and Midwifery cases. An X Ray apparatus is installed.

The person appointed will be required to devote his whole time to the duties, and also to act as may be directed by the Resident Medical Officer.

The appointment will be limited to a term not exceeding one year.

Salary at the rate of £200 per annum, together with board, apartments, and attendance.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be sent to the Public Assistance Officer, Public Assistance Offices, Cardwell-place, Blackburn.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 1st May, 1939.

WELLINGTON HOSPITAL BOARD, NEW ZEALAND

SURGICAL REGISTRAR.

Applications addressed to the undersigned and endorsed Surgical Registrar are invited up to 9 A.M. on Tuesday, 6th June, 1939, for the position of Surgical Registrar to the Wellington Hospital.

Salary £500 per annum resident or living out allowance in lieu of quarters. Applicants to state earliest date on which they can commence duty. Appointment to be for one year subject to renewal. Preference will be given to holder of post-graduate qualification.

Applicants are requested to state age and experience and enclose copies of references.

J. B. I. COOK, Secretary.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

The Board of Management invite applications for the post of SENIOR CASUALTY OFFICER. Salary is at the rate of £150 per annum, with board and residence, and the appointment will be tenable for the six months period commencing 1st July, 1939. This post is next in seniority to that of the Resident Surgical Officer.

Applications, with copies of testimonials, to be sent to the undersigned not later than 20th May, 1939.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

The Royal Infirmary, Sheffield, 6.
2nd May, 1939.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

SURGICAL FIRST ASSISTANTS.

Applications are invited for the posts of First Assistants to two Surgical Units.

The appointments are whole-time and limited to Hospital practice. They are non-resident and are tenable for one year. Successful candidates will be eligible for re-election for a further period of one year.

Applicants must be Fellows of the Royal College of Surgeons.

The salary attached to each post is £300 per annum with emoluments.

Applications, giving full particulars as to age and previous experience, &c., with copies only of recent testimonials, to be forwarded to the undersigned not later than Wednesday, 31st May, 1939.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

The Royal Infirmary, Sheffield, 6, 2nd May, 1939.

Royal Hampshire County Hospital,
WINCHESTER.
(187 Beds. 5 Resident Officers.)
Hospital recognised by the Royal College of Surgeons, England.

HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to take up duties on the 1st July. Six months' appointment. Salary £100 per annum, with board, residence, and laundry.

Candidates, who must be of British Nationality, to make application to the undersigned, enclosing copies of three testimonials.

H. EWART MITCHELL, Superintendent and Secretary.

6th May, 1939.

Hull Royal Infirmary.

Applications are invited for the post of SECOND HOUSE PHYSICIAN (Male), vacant May 31st. Salary at the rate of £150 per annum, plus board, residence, and laundry. The post is recognised by the University of London for the M.D. Branch 1 (Medicine) Examination.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving age, experience, and nationality, together with copies of recent testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

8th May, 1939.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL).
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence, and laundry.

As the appointee will be required to work mainly in the Surgical Wards, preference will be given to candidates with higher degrees and special post-graduate experience in Surgery.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Tuesday, the 30th May, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Health Department, Guildhall, Hull, 8th May, 1939.

Lancashire County Council.

PARK HOSPITAL, DAVYHULME, Near MANCHESTER.

APPOINTMENT OF RESIDENT MEDICAL OFFICER.

Applications are invited from registered Male Medical Practitioners (unmarried) for the following appointment:—

Assistant Resident Medical Officer to be attached to the Obstetrical, Gynæcological, and Surgical Units. Salary £300 per annum.

The usual residential allowances are provided.

The appointment will, in the first instance, be for a period of six months, the successful applicant being eligible for reappointment for a further period of six months at the end of that period.

The hospital comprises 500 beds for acute cases, is fully equipped in every respect and is recognised as a complete Training School for Nurses.

The appointment will be terminable by one month's notice on either side.

Forms of application may be obtained from the County Medical Officer of Health, Hospital and Medical Department, County Offices, Preston, to whom all applications, accompanied by copies of not more than two recent testimonials, must be forwarded so as to be received not later than Wednesday, 31st May, 1939.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, 8th May, 1939.

UNIVERSITY OF OXFORD

LORD NUFFIELD'S BENEFACTION FOR THE ADVANCEMENT OF MEDICINE

RESEARCH STUDENT IN THE DEPARTMENT OF CLINICAL MEDICINE.

Applications are invited for a Research Studentship in the Department of Clinical Medicine.

The successful candidate will be required to carry out research work under the Nuffield Professor of Clinical Medicine at the Radcliffe Infirmary. The appointment will date from 1st July, 1939, or such near date as may be arranged and will be for one year in the first instance. The salary offered is £300 a year.

Candidates, who must hold a Medical qualification registrable in Great Britain, must send their applications and the names of three referees to Professor WITTS, Radcliffe Infirmary, Oxford, so as to reach him not later than 1st June, 1939.

North Staffordshire Royal Infirmary,

STOKE-ON-TRENT.
(400 Beds.)

The Committee invites applications for the post of HONORARY ASSISTANT SURGEON. Applicants must possess the Degree of Master of Surgery of a British or Irish University, or Fellowship of one of the Royal Colleges of Surgeons of England, Edinburgh, or Ireland.

Canvassing will disqualify, but candidates may send copies of their applications to members of the Election Committee whose names may be obtained from the undersigned, to whom applications, together with copies of three testimonials, should be sent on or before Saturday, May 27th, 1939.

THORNBURROW GIBSON, Secretary and House Governor.

8th May, 1939.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary at the rate of £175 per annum, with board, &c. Candidates must have held an appointment as House Surgeon at a General Hospital and had considerable experience, as the post is a very responsible one.

To commence 12th June, 1939. Six months' appointment and eligible on completion of term for extension.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned not later than 27th May, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 3rd June.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 24th May.

ARTHUR R. CASH, General Superintendent and Secretary.

County Borough of Blackburn.

PUBLIC HEALTH DEPARTMENT.

Applications are invited from registered Medical Practitioners (not under thirty-five years of age) for the full-time appointment of ASSISTANT MEDICAL OFFICER OF HEALTH (Male) for services in connexion with the Council's Scheme for Air-raid precautions.

The duties will be concerned with the organisation, subject to the control of the Medical Officer of Health, of the First-aid and Casualty Air-Raid Precautions Services and will include lecturing in first-aid and team-training of personnel. Previous experience in first-aid work and organisation is desirable though not essential.

The salary will be at the rate of £600 per annum, and the appointment will be, in the first instance, for a period of twelve months, after which it will be reviewed.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Victoria-street, Blackburn, and must be returned, accompanied by three recent testimonials, to the undersigned by Saturday, the 27th May, 1939.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn.

County Borough of Newport.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH. (Male.)

Applications are invited for the post of Assistant Medical Officer of Health (Male) at a commencing salary of £600 per annum, rising by annual increments of £25 to a maximum of £750 per annum.

Candidates must be under forty years of age, registered Medical Practitioners, and must possess a Diploma in Public Health or an equivalent qualification.

The person to be appointed must have had special experience in Infectious Diseases (as he will be required to take charge of the Infectious Diseases Hospital) and also in Public Health work, including Maternity and Child Welfare and School Medical Work.

The successful candidate will be required to devote the whole of his time to the duties of the office and to perform such work as may be entrusted to him by the Medical Officer of Health. He will also be required to pass a medical examination as to physical fitness, and to contribute to the Council's Superannuation Fund.

Applications, to be made on forms obtainable at this office and accompanied by copies of three recent testimonials, must reach the Medical Officer of Health, Royal Chambers, High-street, Newport, Mon., not later than Saturday, June 3rd, 1939.

Sussex Eye Hospital,

Eastern-road, BRIGHTON.
(48 Beds.)

HOUSE SURGEON (Male) required. Salary at the rate of £150 per annum, with board, residence, and laundry. Good ophthalmic experience. The appointment is for a period of six months. Duties to commence on June 10th.

The Hospital is recognised by the Examining Board of the Royal College of Physicians, London, and the Royal College of Surgeons of England for the D.O.M.S. Diploma.

Applications in writing, accompanied by copies of recent testimonials, should be sent to P. F. SPOONER, Assistant Secretary, Sussex Eye Hospital, Eastern-road, Brighton, on or before the 27th May.

4th May, 1939.

The Walker Dunbar Private Hospital

FOR WOMEN AND CHILDREN,
CLIFTON DOWN ROAD, CLIFTON, BRISTOL, 8.

Applications are invited from Medical Women to fill a vacancy on the Honorary Medical Staff. The work includes one session per week at the Read Dispensary.

Applications, with testimonials, should be sent to the Honorary Secretary by June 1st.

UNIVERSITY OF BRISTOL

MEDICAL OFFICERS.

The University invites applications for Part-time Medical Officers (one man and one woman) to undertake the medical examination of students.

Applications should reach the undersigned, from whom further particulars may be obtained, on or before June 1st, 1939.

WINIFRED SHAPLAND, Secretary and Registrar.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.
(220 Surgical and Medical Beds.)

HOUSE SURGEON AND ASSISTANT CASUALTY OFFICER.

Applications are invited from fully qualified Men for the above post.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

8th May, 1939.

City of Manchester.

CRUMPSALL HOSPITAL. (1400 Beds.)
(Recognised under the regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service. The duties of the appointment are mainly of a medical nature.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than May 24th, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 8th May, 1939.

King Edward VII Hospital, Windsor.

(200 Beds.)

CASUALTY OFFICER required beginning June. Applicants must be fully qualified Men or Women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than May 17th.

A. E. CHURCHER, Secretary.

University of Cambridge.

E. G. FEARNSIDES SCHOLARSHIP FOR CLINICAL RESEARCH ON THE ORGANIC DISEASES OF THE NERVOUS SYSTEM.

This Scholarship is open to members of the University or of Girton College or Newnham College who are graduates or titular graduates in Medicine, or to graduates or titular graduates in Arts who have passed Part II of the Natural Sciences Tripos.

Applications must be sent to the University Registrary before June 24th.

H. R. DEAN, Vice-Chancellor.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

Applications are invited for the post of CLINICAL ASSISTANT to the DERMATOLOGICAL DEPARTMENT. Salary £300 per annum.

Letters, stating age and giving particulars of qualifications and any previous experience, should be submitted to the undersigned.

H. KINGSLEY PEARCE, General Superintendent and Secretary.

8th May, 1939.

Manchester Victoria Memorial Jewish

HOSPITAL, CHEETHAM.
(Non-Sectarian.) 102 Beds.

Applications are invited for the post of JUNIOR HOUSE SURGEON AND CASUALTY OFFICER (Male). The appointment is for six months. Salary £125 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be forwarded to the undersigned not later than Tuesday, May 23rd, 1939.

By order of the Board of Management.

D. ROBERTS, Superintendent and Secretary.

Kent and Canterbury Hospital,

CANTERBURY.
(183 Beds. 4 R.M.O.'s.)

HOUSE PHYSICIAN required, Male, unmarried. Six months' appointment, commencing the 5th June, 1939. Salary £125 per annum, with board, residence, and laundry.

Applications, together with copies of testimonials, should be sent to the undersigned.

J. F. KENT, Superintendent and Secretary.

Free Eye Hospital, Southampton.

The Committee require the services of a duly qualified HOUSE SURGEON for a period of six months from 1st June, 1939. Salary £150 per annum, with board, residence, and laundry.

Post-graduate experience in Ophthalmology is desirable.

Applications, with three recent testimonials, to reach the Secretary by 25th May, 1939.

The Bolton Royal Infirmary.

(318 Beds, including two Auxiliary Hospitals.)

Applications are invited for the [illegible]
HOUSE PHYSICIAN.
This post offers an excell[illegible]te
experience of acute [illegible]
Salary £200 per annum[illegible]
The appointment i[illegible]
THREE HOUSE SURG[illegible]
Salary £150 per ann[illegible]
One House Surgeo[illegible]
Ear, Nose, and [illegible]
There is a Resident [illegible]
R.S.O. on the staff.
Applications, stati[illegible]
together with copies [illegible]
the undersigned not la[illegible]
Duty in each case wi[illegible]
H. AUBREY [illegible]

The Royal

ASSOCIATION, 85, [illegible]
Victoria 2722), supplies q[illegible]
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and Special Treatment Orderlies, [illegible]orters,
Caretakers, &c., without charge to [illegible]ers.

Typewriting.—Specialists in Typing

Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson, Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Woman (37) seeks Executive Post in

London with Hospital, Clinic, Firm or other organisation concerned with the Medical Profession or Auxiliary Medical Professions. 12 years' experience medical publishing firm (executive capacity) with experience all aspects of business concerned with both journal and book publishing. Excellent references from professional and business men.—Address, No. 607, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Theses, Lectures, Applications for

Hospital Posts, &c., typed 2s. per 1000 and 3d. carbon copies.—Mrs. JEPSON, 11A, Eton Rise, N.W. Prim. 0857.

Assistant required with a view to early

Partnership in mixed Practice. Large panel, near Midlands City. Beautiful house and garden. Scotch or English.—Address, No. 598, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Assistant Medical Director required for

ORGANON LABORATORIES. Applicants for this whole-time administrative post should have a good academic record and some post-graduate experience as a hospital resident. An essential qualification is the ability to represent scientific facts with accuracy. A knowledge of the literature of endocrine research will be considered an advantage.

Apply in the first instance stating full particulars and requirements to Address, No. 601, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Mental Specialist desires Partnership or appointment where scope for Insulin or Cardiazol therapy.—Address, No. 605, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Pharmaceutical Manufacturers invite application from qualified Medical Man willing coöperate in practical or clinical tests new product.—Apply, No. 602, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Partnership for Sale—Bradford, Yorks —£1100 gross, increasing later. Good panel.—Address, No. 600, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Partnership, Internal Medicine, Good Practice, wanted in Colonies.—Address, No. 604, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

North-East Scotland.—Small Practice, in part ophthalmic, in country town, for sale. Vendor retiring. Good house and garden. Price £2000.—Address, No. 603, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

London.—Cora Hotel. Upper Woburn-place, near B.M.A Headquarters. Accommodates 235 visitors. Modern comforts. Excellent table. A.A. and R.A.C. recommended. Room, bath, and table d'hôte breakfast, 8s. 6d.

Resident Patients.—Doctors desiring accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

Several Good Secondhand Microscopes and Objectives, by Ross, Zeiss, Watson, &c., to be cleared at very low prices. Details on application.—City Sale and Exchange (1929), Ltd. 93–4, Fleet-street, E.C.4.

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It suits the constitution best!

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Harley Street and District.—A number of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & Co., 10, Henrietta-place, Cavendish-square, W.1. Lang. 2601.

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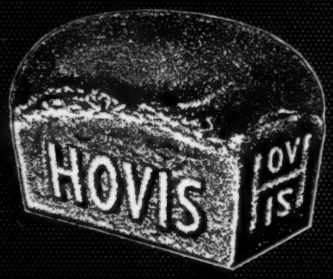

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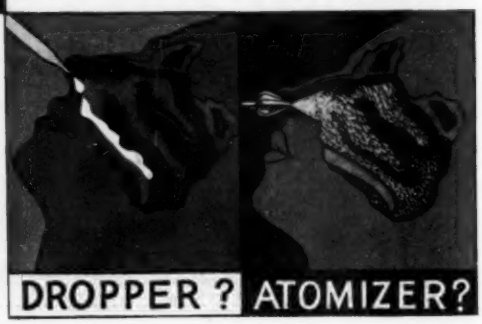

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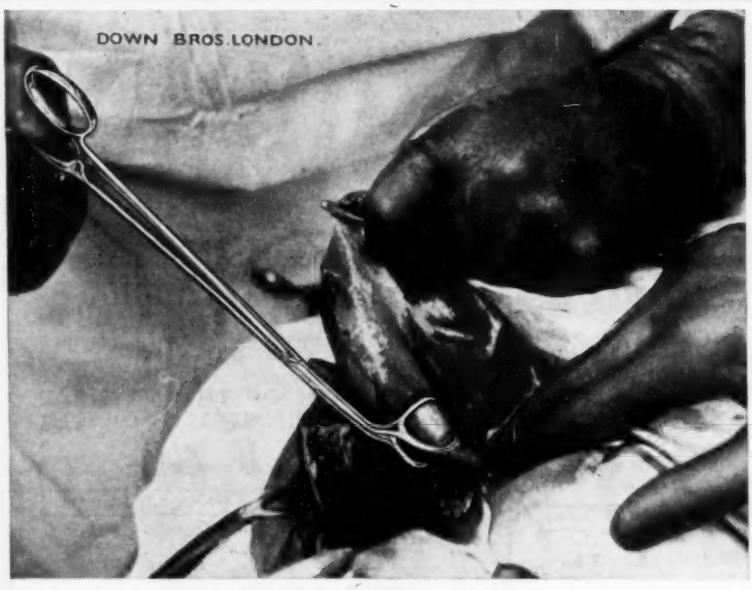

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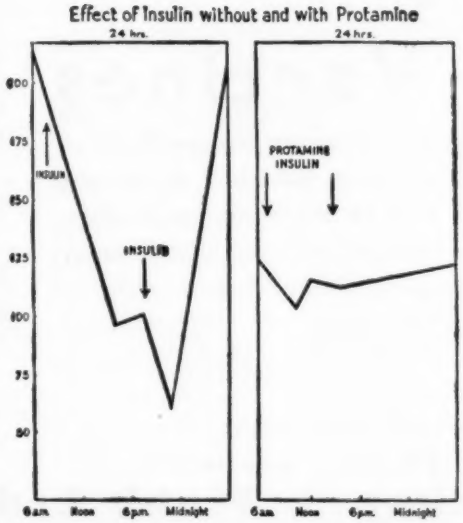

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[1] *British Medical Journal*, 1935, November 16th, p. 938.
[2] *British Medical Journal*, 1938, January 15th, p. 105.

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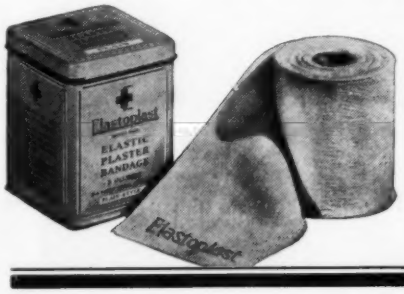

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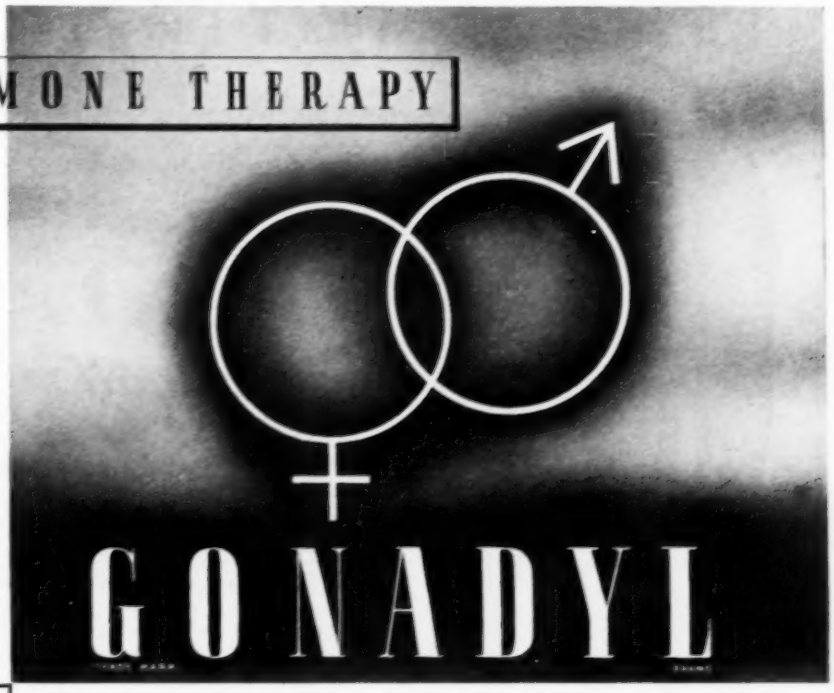

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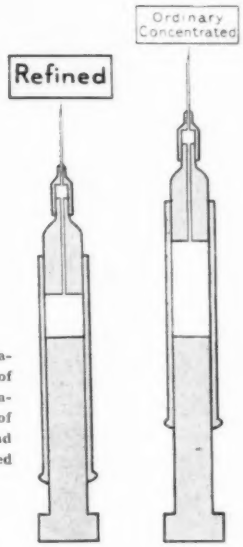

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J. AMER. MED. ASSOC. Vol. III. No. 5, page 390. July 30, 1938

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[*See also pp.* 11, 12 & 15.]

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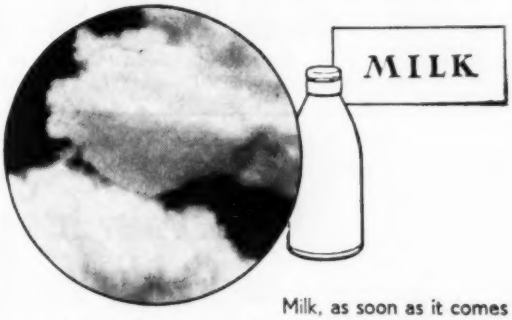

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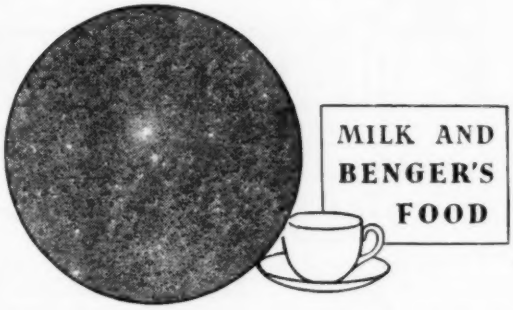

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Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
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Treatment by mineral waters and baths. Natural carbonic acid brine, bubbling spring, mud and vapour baths for Stomach, Intestinal, Heart, Vascular, Rheumatic, Liver, Gall and Circulatory Troubles.

Prospectus through the Kurverein

Rakoczy Spring Waters for Home Treatment for the Stomach, Intestines and Circulation.

Obtainable direct from the Spa Management or through selling agents, a list of whom will be supplied.

60% reduction on the railway fare—Cheap travelling marks.

Information through THE GERMAN RAILWAYS INFORMATION BUREAU, 19, Regent Street, LONDON, S.W.1.

RUSSELLS
Hemel Hempstead Road,
WATFORD
Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.
Apply: RESIDENT MEDICAL OFFICER.

NORTHUMBERLAND HOUSE
GREEN LANES,
FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.
Telephone: Stamford Hill 2688.
For further particulars apply to the MEDICAL SUPERINTENDENT.

Littleton Hall, Brentwood, Essex.
(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45

PRIVATE NERVOUS AND MENTAL PATIENTS

London County Council. — Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 49s. a week for London cases, 53s. 1d. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

CITY OF LONDON MENTAL HOSPITAL
Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

THE ARCHER NERVE TRAINING COLONY
LANGLEY RISE, KING'S LANGLEY, HERTS.

Started 35 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. Telephone: King's Langley 7519. Lessons and Treatments in the art of Relaxation can also be obtained at the "**FRANCES ARCHER**" Centre, 30, Dorset Sq., N.W.1 (near Baker St. Stn.), Weds. and Sats. 10–1 p.m., 2–5.30 p.m. Tel.: Ambassador 2864. All applications to the Secretary, King's Langley.

KINMEL HALL Rheuma Spa

Modern Spa Treatments, Including Continental Pistany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*

ABERGELE - NORTH WALES

Queen Mary's Hospital for the East End,
Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts:—

	Salary	Period
HOUSE PHYSICIAN (1)	£120	6 months.
HOUSE SURGEON (2)	£120	6 ,,
OUT-PATIENT OFFICER	£150	6 ,,
OBSTETRIC HOUSE SURGEON	£110–£130	6 ,,

The appointments will date from the 1st of July, 1939, and will be for six months except in the case of the Obstetric House Surgeon. This appointment will be for three months as Junior at £110 per annum, and for three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 beds, including 50 for Maternity.

Candidates, who must be single, should send applications, with copies of testimonials, to the undersigned, not later than Wednesday, the 24th of May, 1939.

RAPHAEL JACKSON, Major, Secretary.

University of London, King's College.

The Delegacy will require in October next the services of a LECTURER IN PHYSIOLOGY. Salary £350. Applicants should possess a Medical degree, and preference will be given to those with special qualifications in Pharmacology.

Candidates should send in their applications, accompanied by three copies of three recent testimonials, not later than 30th May, to the Secretary, King's College, Strand, W.C.2, from whom particulars and forms of application may be obtained.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of June, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 30th May, 1939.

MEDICAL STAFF, PRISON SERVICE (ENGLAND AND WALES)

Applications are invited for the post of Male MEDICAL OFFICER CLASS II in the above Service. Commencing salary £525 per annum, rising by annual increments to £800 per annum, with unfurnished house (free of rates) or an allowance in lieu. The post is pensionable.

Candidates must be fully qualified and registered. Preference will be given to those who have held House appointments; have had experience in mental diseases and psychological methods; and are between the ages of twenty-five and thirty-five years. The commencing salary for those holding the Diploma of Psychological Medicine will be £575 per annum.

Of the whole-time Prison Medical Officers 16 are Class II and 12 are Class I. Promotions from Class II to the rank of Medical Officer Class I, on a salary scale of £800 per annum, rising to £1000 per annum, with unfurnished house (free of rates) or an allowance in lieu, are made as vacancies occur. Three of the Senior Medical Officers receive an additional allowance of £50 per annum, and at certain prisons Medical Officers receive fees for giving evidence in the Criminal Courts.

Forms of application can be obtained from the Secretary (Staff Branch), Prison Commission, 68, Victoria-street, London, S.W.1.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from Medical Women of six months' or more experience for the post of IN-PATIENT OBSTETRIC ASSISTANT (Anæsthetic duties included). The appointment is for six months from 1st August, 1939.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 1st June, 1939.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER

Duties to commence 1st July, 1939, for six months. Salary £150 per annum. Candidates must have held previous resident Hospital appointments.

The undersigned will supply application forms, which should be completed and returned to him, accompanied by copies of three recent testimonials, on or before the 1st June.

RICHARD T. BARTLEY, Secretary.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

THIRD HOUSE PHYSICIAN

Duties to commence 1st August, 1939, for six months.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 1st June.

RICHARD T. BARTLEY, Secretary.

The Princess Beatrice Hospital,

Earl's Court, London, S.W.5.
(General Hospital. 85 Beds.)

RESIDENT SURGICAL OFFICER (Male) required for a period of six months in the first place from 1st July, 1939, eligible for re-election. Salary at the rate of £200 per annum, with board, residence and laundry (together with £25 to cover all duties during the six months relating to Private Patients).

Previous resident experience and F.R.C.S. essential.

Applications, with copies of three recent testimonials, should be received by the Secretary not later than 9 A.M. Tuesday, May 23rd, 1939.

West End Hospital for Nervous DISEASES.

IN-PATIENT DEPARTMENT: Gloucester Gate, Regent's Park, N.W.1.
OUT-PATIENT DEPARTMENT AND SECRETARY'S OFFICE: 73, Welbeck-street, W.1.

The Committee of Management invites applications for the following appointments:—

HONORARY ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons, England.

Fifteen copies of the application, with three recent testimonials, will be required. Further particulars should be obtained from the undersigned not later than Monday, May 22nd.

HONORARY PSYCHOTHERAPISTS (with experience) for the Out-patient Department. Candidates must hold a degree or diploma in Psychological Medicine.

HONORARY CLINICAL ASSISTANTS (with experience) for the Child Guidance Department.

Applications, with three recent testimonials, should be addressed to the undersigned, from whom further particulars can be obtained, not later than Monday, May 22nd.

J. P. WETENHALL, Secretary and House Governor.

Borough of Wembley.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH (Male).

The Borough Council invite applications for the post of Deputy Medical Officer of Health (Male)—whole-time appointment.

The salary will be at the rate of £700 rising, subject to satisfactory service, by annual increments of £25 to £850 per annum. There will be, in addition, a car allowance of £50 per annum.

The possession of a Diploma in Public Health or similar qualification is essential. Candidates must be capable of assuming full medical responsibility in the public health department in the absence of the Medical Officer of Health so that general public health experience is necessary.

The duties will include both clinical and administrative responsibility in the maternity and child welfare services and candidates must, subsequent to qualification, have had special experience of practical midwifery and ante-natal work. He will be required, also, to assist in the casualty services of The Air-Raid Precautions schemes and to undertake any such duties as the Medical Officer of Health, with the consent of the Council, may assign from time to time.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination.

Forms of application and particulars of the duties and terms of appointment may be obtained from the Medical Officer of Health, Public Health Department, Forty-avenue, Wembley, and must reach me not later than noon on Friday, 26th May, 1939.

Canvassing in any form will disqualify candidates.

KENNETH TANSLEY, Town Clerk.

Town Clerk's Office, Wembley, May 10, 1939.

Chelsea Hospital for Women,

Arthur-street, S.W.3.

JUNIOR HOUSE SURGEON (Male).

Applications are invited for the above post which will be vacant on July 1st. The appointment is for six months at a salary of £100 per annum, together with board, residence, and laundry.

At the expiration of this term he will be expected to proceed to the Senior post for six months at a salary of £120 per annum.

Candidates should forward their applications, giving full particulars and accompanied by copies of three recent testimonials, to the undersigned not later than Friday, 26th May, 1939.

GEO. W. COOLING, Secretary.

Chelsea Hospital for Women

CONVALESCENT HOME, ST. LEONARDS-ON-SEA.
(32 Beds.)

The post of MEDICAL OFFICER to this Convalescent Home will be vacant on July 1st.

Applications are invited from registered Medical Practitioners. The post is non-resident and carries a small honorarium.

Particulars of duties can be obtained from the undersigned, to whom applications, accompanied by copies of testimonials, must be sent on or before Friday, 26th May, 1939.

GEO. W. COOLING, Secretary, Chelsea Hospital for Women, London, S.W.3.

Saint Pancras Dispensary,

39, Oakley-square, N.W.1.

The Committee propose, at their meeting on Tuesday, June 6th, 1939, to elect an HONORARY PHYSICIAN to attend on Thursday afternoons. Preference will be given to a candidate who is on the staff of a general hospital in the N.W.1, W.1, or W.C.1 postal areas.

Applications, with testimonials, should reach the Honorary Secretary, GERVEYS DEW, Esq., 2, Endsleigh-street, W.C.1, by Tuesday, May 30th, 1939.

Samaritan Free Hospital for Women,

Marylebone-road, N.W.1.

PATHOLOGIST.

Applications are invited for the post of Pathologist (non-resident). This appointment in the first instance will be on a part-time basis. Salary at the rate of £250 per annum.

Applications, with copies of testimonials, should reach the undersigned at the Hospital not later than Saturday (noon), June 3rd, 1939.

G. H. HAWKINS, Secretary.

St. Mary's Hospital, W.2.

MEDICAL OFFICER in Charge of ELECTRO-THERAPEUTIC DEPARTMENT.

Applications are invited for the above vacancy on the Honorary Medical Staff of the Hospital.

Candidates are requested to forward their applications, with copies of testimonials, not exceeding six in number, to reach the undersigned on or before Monday, 5th June, 1939.

Candidates must be Fellows or Members of one of the Colleges of Physicians in the United Kingdom, or possess a medical degree of a recognised University. The appointment is for five years, at the expiration of which term the holder will be eligible for re-election.

W. PARKES, House Governor.

West London Hospital,

Hammersmith, W.6. (239 Beds.)

Required as soon as possible one RESIDENT ANÆSTHETIST (Male or Female). The appointment is tenable for six months and is terminable by one month's notice on either side. Salary at the rate of £100 a year with full board and lodging. Candidates must be registered under the Medical Act.

Applications, with full particulars of age, Medical School, qualifications, and experience, and accompanied by copies of testimonials, must reach me not later than first post on Thursday, 1st June. Candidates will be required to attend a meeting of the Medical Council at 4.30 P.M. on Friday, 2nd June, and the House Committee Meeting at 5 P.M. the same day, when the appointment will be made.

H. A. MADGE, Secretary.

West London Hospital,

Hammersmith, W.6. (239 Beds.)

Required a RESIDENT CASUALTY OFFICER (Male or Female). The appointment is tenable for six months from 1st July next and is terminable by one month's notice on either side. A considerable portion of the duties will be in connexion with the Special Injuries Clinic. Salary at the rate of £100 a year with full board and lodging. Candidates must be duly qualified registered Medical Practitioners and preference will be given to those who have held a resident appointment at a General Hospital.

Applications (which must be on printed forms obtained from me) must reach me not later than first post on Friday, 9th June. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a Special Meeting of the Medical Council at 4.30 P.M. on Friday, 23rd June, and the House Committee Meeting the same day, when the appointment will be made.

H. A. MADGE, Secretary.

Corporation of London.

APPOINTMENT OF TWO ASSISTANT PORT MEDICAL OFFICERS OF HEALTH.

Applications are invited for the above appointments from registered Medical Practitioners whose ages will not exceed forty years on 31st May, 1939. Applicants must possess a Diploma in Public Health or in Tropical Medicine and Hygiene or have had special experience in the work of a Port Medical Officer.

The salary will be £600 per annum, rising in the discretion of the Port of London Health Committee by annual increments of £25 per annum to £850 per annum.

Forms of application may be obtained of the Town Clerk, Guildhall, London, E.C.2.

Applications on the prescribed form, together with copies of three testimonials, must reach the Town Clerk's Office not later than NOON on Wednesday, the 31st May, 1939.

ROACH.

Guildhall, E.C.2, 8th May, 1939.

Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Applications are invited for the post of RADIOLOGIST to the above Hospital.

The Radiologist will be in sole charge of the Radiological department, which houses Diagnostic and Superficial Therapy equipment. Attendances required will be four sessions weekly, on separate days. An adequate technical staff is maintained.

Terms of appointment for one year and renewable thereafter.

Remuneration £350 per annum.

Applications, together with copies of three recent testimonials, to be sent to the undersigned on or before Friday, the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Wanted a REGISTRAR to the EAR, NOSE AND THROAT DEPARTMENT, to assist the Aural Surgeon, who is in charge of that department. The appointment carries with it an honorarium of 50 guineas per annum.

Attendance will be required at the Hospital on Tuesday and Friday mornings at 9 A.M.

Applications from candidates, who must be Fellows of the Royal College of Surgeons, accompanied by copies of three testimonials, to be sent to the undersigned not later than Friday the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

The Salvation Army,

THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER, vacant July 1st, 1939. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Monday, June 5th, 1939.

FRED HAMMOND, Secretary.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)
(257 Beds.)

HOUSE PHYSICIAN required for six months as from 1st July. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd June to the undersigned.

F. A. LYON, Secretary.
Seamen's Hospital Society.

13th May, 1939.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)
(257 Beds.)

HOUSE SURGEON required for six months as from 1st July. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd June to the undersigned.

F. A. LYON, Secretary.
Seamen's Hospital Society.

13th May, 1939.

Princess Elizabeth of York Hospital
FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE SURGEON is required on 1st July, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Thursday, 1st June, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Princess Elizabeth of York Hospital
FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A CASUALTY OFFICER is required on 1st July, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Thursday, 1st June, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Westminster Hospital,
Broad Sanctuary, S.W.1.

Applications are invited for the following appointments:—

CHIEF OBSTETRIC ASSISTANT AND REGISTRAR.

Duty commencing July 1st, 1939. Candidates must be Fellows of the Royal College of Surgeons (England), not engaged in general practice. The appointment is for one year, subject to annual re-election for two subsequent years. Salary £200 per annum paid by the House Committee and £50 per annum paid by the School of Medicine Committee.

HONORARY ANÆSTHETIC ASSISTANT AND REGISTRAR.

Duty commencing 1st July, 1939. Candidates must be registered Medical Practitioners. The appointment is for one year, subject to annual re-election for two subsequent years.

Ten copies of applications, together with ten copies of three recent testimonials, should be submitted to the undersigned on or before Friday, 2nd June, 1939.

CHARLES M. POWER, Secretary.

St. Mark's Hospital for Cancer, Fistula
AND OTHER DISEASES OF THE RECTUM.
City-road, E.C.1.

Applications are invited for a CLINICAL ASSISTANTSHIP now vacant in the OUT-PATIENTS' DEPARTMENT on Monday afternoons. The appointment is for six months in the first instance, and a fee of £3 3s. is payable on appointment.

Applications to reach the Secretary (from whom further particulars may be obtained) at the Hospital by Monday, 29th of May.

Guy's Hospital, S.E.1.

Applications are invited for the post of Woman MEDICAL OFFICER for the Department of Venereal Diseases, commencing July 3rd, 1939, to attend on six sessions per week, each of three hours. Salary £350 per annum.

Applications, giving age, qualifications, and details of experience, and accompanied by testimonials, must be sent to the Superintendent, Guy's Hospital, London Bridge, S.E.1, not later than June 5th, 1939.

The Gordon Hospital for Diseases of
THE RECTUM AND COLON,
Vauxhall Bridge-road, London, S.W.1.
(62 Beds, increasing to 102.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER at the above Hospital. The appointment is for a period of six months to December 31st, 1939. It is desired that the successful candidate should commence duty July 1st, 1939. Preference will be given to candidates holding the F.R.C.S. (Eng.) Diploma. It is anticipated that the bed complement of 102 will be reached by the middle of the year.

Salary is at the rate of £150 per annum (plus £25 for the six months to cover all duties relating to private patients), together with board-residence and laundry.

Applications, accompanied by copies of three recent testimonials, should reach the undersigned by June 1st, 1939, and envelopes should be endorsed "R.S.O."

E. S. FOLEY, Secretary.

British Postgraduate Medical School.

Applications are invited for the post of FIRST ASSISTANT (non-resident) in the DEPARTMENT OF SURGERY at the above-named School. Candidates should hold a higher qualification and have some experience in orthopædic surgery. The post will be whole time. Salary three hundred pounds (£300) to five hundred pounds (£500) per annum, according to experience and qualifications.

Further particulars can be obtained from the Dean of the School, Ducane-road, Shepherd's Bush, London, W.12, to whom applications, accompanied by two testimonials and giving the names of two referees, should be addressed, to arrive not later than the first post on Monday, 5th June, 1939.

The South London Hospital for Women
AND CHILDREN, Clapham Common, S.W.4.
(140 Beds.)
A General Hospital for Women and Children.

Applications are invited from medical women for the undermentioned appointments:—

HOUSE SURGEON
and
HOUSE PHYSICIAN,

each for a period of six months from July 1st, 1939. Salary at the rate of £100 per annum, with board, residence, and laundry.

Candidates are requested to call on members of the Hon. Medical Staff before Saturday, June 10th, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

Royal Eye Hospital,
St. George's Circus, S.E.1.

Applications are invited for the posts of REFRACTIONIST to the L.C.C. Children's Department. Monday mornings and on Friday mornings. Salary £80 per annum.

Applicants are requested to state which afternoon they could work as Clinical Assistant (in conjunction with either of the above posts) for which an honorarium of £20 per annum will be paid.

Applications to the Secretary on or before 31st May.

F. E. D'ALTON, Secretary.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER to attend on Tuesdays and Fridays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £150 per annum for two attendances each week. First Assistant Medical Officers will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 2nd June, 1939.

A. J. M. TARRANT, Secretary.

The Medical College of St. Bartholo-
MEW'S HOSPITAL, E.C.1.

Applications are invited for the post of SENIOR DEMONSTRATOR OF PHYSIOLOGY at St. Bartholomew's Hospital Medical College, commencing October 1st, 1939.

Further information may be obtained from the Dean, to whom applications should be sent not later than Saturday, June 10th, 1939.

The Medical College of St. Bartholomew's
HOSPITAL, E.C.1.

Applications are invited for the following two posts at St. Bartholomew's Hospital Medical College:—

(1) LECTURER IN PUBLIC HEALTH;
(2) LECTURER ON FORENSIC MEDICINE.

Further information may be obtained from the Dean, to whom applications must be sent not later than Saturday, June 10th, 1939.

Princess Louise Kensington Hospital
FOR CHILDREN, St. Quintin-avenue, North Kensington, W.10. (Ladbroke 0133).

The Board of Management invite applications for the post of HONORARY ASSISTANT PHYSICIAN, with Beds. Applicants must be graduates of a University and must hold the M.R.C.P. (London), and the successful candidate will be required to see Out-patients.

Applications, accompanied by copies of three testimonials, should be sent to the undersigned at the Hospital, from whom any further information can be obtained, and should reach him not later than Saturday, 27th May, 1939.

H. J. ELEY, Secretary.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

Two HOUSE PHYSICIANS and One HOUSE SURGEON are required. Duties to commence on the 1st July, 1939.

The appointments are tenable for six months. Salaries at the rate of £50 per annum.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 5th June, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th June, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

May, 1939.

Evelina Hospital for Sick Children,
Southwark, S.E.1.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from the 12th June (first two months in the Casualty and Out-patient Department). Salary at the rate of £120 per annum, with board and residence.

Applications, stating age, experience, and qualifications, accompanied by copies of three testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on Wednesday, 24th May.

W. H. SIDNELL, House Governor.

5th May, 1939.

Woolwich and District War Memorial
HOSPITAL, Shooters-hill, London, S.E.18. (General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for the post of SURGICAL REGISTRAR for a period of twelve months from the 1st of June, 1939.

An honorarium of £100 per annum will be paid in respect of this appointment, which will be renewable for a further year, if approved by the Board of Management.

Candidates must be Fellows of the Royal College of Surgeons of England.

Applications, accompanied by copies of not more than three recent testimonials, should be addressed to the undersigned, to reach him on or before May the 22nd. Short-listed candidates will be invited to meet the Appointments Committee on Friday, May 26th, 1939.

R. S. G. HUTCHINGS, Secretary.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN to the CHILDREN'S DEPARTMENT.

Applications, with copies of three testimonials, should be sent before June 10th to the House Governor, King's College Hospital, Denmark Hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the post of HONORARY ASSISTANT OBSTETRICIAN. Yearly appointment, maximum three years. Duties to commence in June.

Further particulars of the post can be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 2nd June.

Central London Throat, Nose and Ear
HOSPITAL, Gray's Inn-road, London, W.C.1.

REGISTRAR.

Applications are invited for the post of Registrar, who will be required to attend half-a-day daily, and to commence duties on 1st July. The successful candidate should hold one of the higher qualifications in surgery or the D.L.O. or should undertake to obtain one of these qualifications within a year.

Salary at the rate of £150 per annum.

Further particulars of the appointment may be obtained from the undersigned, to whom applications, accompanied by copies of three recent testimonials, should be sent on or before 12th June.

JOHN H. YOUNG, Secretary-Superintendent.

The London Chest Hospital,
Victoria Park, E.2.
('Bus, Tram, and Rail, Cambridge Heath, L. and N.E. Railway.)

Applications (with copies of three testimonials) are invited to be sent to the Secretary, on or before Friday, 2nd June, for the following posts, subject to the rules and by-laws of the Hospital:—

HOUSE PHYSICIAN (Male) for six months from July 1st, 1939. Salary at the rate of £100 per annum.

HOUSE SURGEON (Male) for six months from July 1st, 1939. Salary at the rate of £100 per annum.

Board, residence, and laundry provided.

Corporation of London.

APPOINTMENT OF SURGEON TO THE CITY OF LONDON POLICE FORCE.

Applications are invited for the above appointment from registered Medical Practitioners whose age does not exceed forty-five years on the 10th June, 1939.

The Surgeon will be required to reside at such place as the Police Committee of the Corporation may from time to time approve and to consider that the first call upon his services is the discharge of the duties of his position and that no demands of private practice shall in any way interfere with this.

Salary £600 per annum, rising by annual increments of £50 to £900 per annum.

Forms of application with full particulars of the appointment may be obtained from the Town Clerk, Guildhall, London, E.C.2.

Applications on the prescribed form, together with copies of three testimonials, must reach the Town Clerk's Office not later than noon on Saturday, 10th June, 1939.

ROACH.

Guildhall, E.C.2, May, 1939.

ASSISTANT PORT HEALTH OFFICER

Required by the Government of Iraq for the Basrah Port Directorate for a period of three years. Salary Iraqi Dinars 70 to 100 a month according to qualifications and experience (I.D.1. equals £1) plus boarding fees amounting to about dinars 30 monthly. Free first class passages and liberal leave on full salary. The appointment is not pensionable, but there is a Provident Fund Scheme. Candidates, preferably under thirty years of age, should possess the Diploma of Public Health or the Diploma of Tropical Medicine and Hygiene and have had Port Health experience.

Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M.6602.

Cheshire County Council.

PUBLIC ASSISTANCE COMMITTEE.

WEST PARK HOSPITAL, MACCLESFIELD.

APPOINTMENT OF RESIDENT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Practitioners under the age of forty-five years for the above-named appointment, which will be subject to the administrative supervision of the County Medical Officer of Health.

The salary will be at the rate of £350, rising, subject to approval by the appropriate Committee, by £25 annually to £450 per annum, with residential allowances valued for the purposes of superannuation at £120 per annum.

The appointment will be subject to the successful candidate satisfactorily passing an examination by a Medical Officer of the County Council.

The person appointed will be required to enter into a contract which provides, inter alia, for the termination of the appointment by three months' notice on either side.

Application form and list of duties may be obtained from the undersigned, to whom the application should be returned endorsed "Application for Resident Medical Officer" not later than 31st May, 1939.

Canvassing, directly or indirectly, will disqualify.

WILLIAM H. OWEN, Public Assistance Officer.

Bridgegate House, Chester, 16th May, 1939.

County Borough of Halifax.

THE HALIFAX GENERAL HOSPITAL.
(405 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER. (Male.)

Applications are invited from duly qualified registered Medical Practitioners for the above appointment.

Salary £250 per annum, together with board, residence, and laundry. The appointment will be for a term not exceeding twelve months and is not renewable.

Forms of application and conditions of appointment can be obtained from the Medical Officer of Health, Powell-street, Halifax.

Completed applications, together with copies of not more than three recent testimonials, endorsed "Junior Resident Medical Officer" should be forwarded to the undersigned as early as possible.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 16th May, 1939.

Middlesex County Council.

REDHILL COUNTY HOSPITAL, EDGWARE, MDX.
(570 Beds. Medical Staff of 20.)

PHYSICIAN (Grade II). Man or Woman of high qualifications and professional attainments devoting time chiefly to practice of clinical medicine. Whole-time duties, under supervision of Medical Superintendent and Senior Physician, may include teaching nurses and students, &c. Required to reside near hospital. Salary £650–£50–£1000 per annum (inclusive). Any fees received to be paid to Council. Pensionable appointment, subject to medical examination and three months' notice.

VISITING ELECTRO-THERAPIST. Registered Medical Practitioner with D.M.R.E., engaged chiefly in practice of this specialty. One session weekly at 3 guineas each. Appointment subject to one month's notice.

HILLINGDON COUNTY HOSPITAL,
Nr. UXBRIDGE, MDX.

Resident ASSISTANT MEDICAL OFFICER. Registered Medical Practitioner having held resident surgical appointments in general hospitals, with experience in operative surgery. Salary £400–£25–£475 per annum, with board, lodging, and laundry.*

WEST MIDDLESEX COUNTY HOSPITAL,
ISLEWORTH, MDX.

Resident ASSISTANT MEDICAL OFFICER (Male). Registered Medical Practitioner having held resident appointments in general hospitals with special experience in children's diseases. Salary £400–£25–£475 per annum, with board, lodging, and laundry.* Apply as below by 3rd June.

NORTH MIDDLESEX COUNTY HOSPITAL,
Silver-street, Edmonton, N.18.

Resident JUNIOR ASSISTANT MEDICAL OFFICERS (2). Registered Medical Practitioners having held resident appointment in general hospital. Whole-time duties (general, medical, and surgical) under Medical Superintendent. Appointment, subject to medical examination and one month's notice, is primarily for six months but may be extended for further six. Preservation of pension rights under certain Acts. Salary £250 per annum, with board, lodging, and laundry. Apply as below by 3rd June.

* Appointment for four years only, is subject to one month's notice. Medical examination in connexion with pensionable staff. Possibility of retention on established staff in special cases at £500 per annum (maximum).

Applications to be accompanied by completed Form "A" obtainable on request from the undersigned, and returnable by 27th May.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

WARREN-ROAD HOSPITAL, GUILDFORD. (300 Beds.)

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of Assistant Medical Officer at the Warren-road Hospital, Guildford.

Candidates must have held resident hospital appointments and should preferably possess a higher qualification.

The tenure of the appointment is limited to a period of five years, but the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience and enclosing copies of not more than three recent testimonials should be addressed to the County Medical Officer, County Hall, Kingston-on-Thames, so as to be received not later than the 25th May, 1939.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames, 19th May, 1939.

Doncaster Royal Infirmary.
(185 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT and OPHTHALMIC DEPARTMENTS and RESIDENT ANÆSTHETIST.

The appointment is for six months.

Salary at the rate of £150 per annum, with the usual emoluments.

Applications, accompanied by copies of three recent testimonials, should be forwarded to the undersigned immediately.

R. LANCASTER, Secretary Superintendent.

Salford Royal Hospital.
(256 Beds.)

Applications are invited from registered candidates (Male) for two HOUSE SURGEONS for six months from July 1st. Salary £125 per annum.

Forms of application, obtainable from the undersigned, must be delivered on or before 30th May.

By Order of the Board,
H. B. SHELSWELL, General Superintendent and Secretary.
15th May, 1939.

Free Eye Hospital, Southampton.

The Committee require the services of a duly qualified HOUSE SURGEON for a period of six months from 1st June, 1939. Salary £150 per annum, with board, residence, and laundry.

Post-graduate experience in Ophthalmology is desirable.

Applications, with three recent testimonials, to reach the Secretary by 25th May, 1939.

The Bolton Royal Infirmary.
(318 Beds, including two Auxiliary Hospitals.)

Applications are invited for the following posts:—

HOUSE PHYSICIAN.

This post offers an excellent opportunity for post-graduate experience of acute medical cases and clinical pathology.

Salary £200 per annum, with board, residence, and laundry.

The appointment is for six months and is renewable.

THREE HOUSE SURGEONS.

Salary £150 per annum, with board, residence, and laundry.

One House Surgeon mainly in charge of Gynæcological and Ear, Nose, and Throat.

There is a Resident Surgical Officer and also an Assistant R.S.O. on the staff.

Applications, stating age, nationality, and experience, together with copies of testimonials, should be forwarded to the undersigned not later than the first post Monday, May 29th.

Duty in each case will commence on the 1st July, 1939.

H. AUBREY FROGGATT, Superintendent-Secretary.

UNIVERSITY OF BRISTOL

MEDICAL OFFICERS.

The University invites applications for Part-time Medical Officers (one man and one woman) to undertake the medical examination of students.

Applications should reach the undersigned, from whom further particulars may be obtained, on or before June 1st, 1939.

WINIFRED SHAPLAND, Secretary and Registrar.

The University of Manchester.

PILKINGTON FELLOWSHIP IN CANCER RESEARCH.

The above Fellowship of the value of £300, tenable for one year, is offered for competition. The Fellow will be required to enter upon tenure in October, 1939.

Applications must be sent not later than June 30th to the Registrar, The University, Manchester 13, from whom further particulars may be obtained.

The Corbett Hospital, Stourbridge.
(100 Beds and Special Departments.)

Applications are invited for the following posts which will become vacant on the 1st July next.

HOUSE PHYSICIAN at a salary at the rate of £125 per annum, with board, laundry, &c.

HOUSE SURGEON at a salary at the rate of £100 per annum, with board, laundry, &c.

The appointments will be for a period of six months, terminable by six weeks' notice.

The Hospital has a Specialist Visiting Staff and Resident Surgical Officer.

Applications, giving full details of qualifications, age, and experience, accompanied by three copies of testimonials, should be addressed to the undersigned forthwith.

W. G. H. WESTON, Secretary.

Royal Sussex County Hospital,
BRIGHTON.
(272 Beds.)

Required for the 1st July, 1939—
One HOUSE PHYSICIAN (Male).
One CASUALTY HOUSE SURGEON (Male).

Salary respectively £150 and £120 per annum, with board, residence, and laundry.

Candidates must hold Medical and Surgical qualifications of the British Empire, and be duly registered under the Medical Acts.

They must be unmarried, and when elected under thirty years of age.

Applications, with copies of recent testimonials, should reach the undersigned by the 31st May, 1939.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

City of Birmingham.

MATERNITY AND CHILD WELFARE DEPARTMENT.

CANWELL HALL BABIES' HOSPITAL.
(84 Beds.)

A Woman Resident Medical Officer is required for a period of six months. Duties to commence on 5th of June.

Applicants should have had previous experience as a Resident House Physician, preferably in a Children's Hospital.

Salary £250 per annum, with board and laundry.

Applications, endorsed "Resident Medical Officer," and accompanied by copies of three recent testimonials, to be made on a form obtainable from the Medical Officer of Health, Council House, Birmingham, 3, and returned to him on or before May 23rd.

Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).

Wanted, a FIRST HOUSE SURGEON, Male, unmarried. Candidates must be duly qualified and registered. The appointment will be for a period ending 31st October, 1939. Salary, including all services required in connexion with the Paying Patients' Ward, £200 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer, House Physician, two House Surgeons, and Casualty Officer. The Hospital contains Maternity and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned to whom applications, stating age and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary.

1st May, 1939.

Cardiff Royal Infirmary.

NATIONAL RADIUM CENTRE.

Applications are invited for the post of RADIUM REGISTRAR (Male or Female) to the Cardiff Royal Infirmary.

Applicants must be duly qualified Medical Practitioners. Previous clinical experience in Radium work is essential.

The remuneration will be at the rate of £400 per annum, with board and residence.

The successful applicant will in the first place be appointed for a period of three months, which will normally be extended to twelve months, and which may further be extended for a second year.

Applicants are asked to state the earliest date on which they could commence duty.

Intending applicants should apply to the undersigned, who will furnish an application form which should be returned completed, together with copies of three testimonials, at the earliest possible moment.

R. ARMSTRONG, General Superintendent and Secretary.
Cardiff Royal Infirmary.

11th May, 1939.

Kent County Ophthalmic and Aural

HOSPITAL, MAIDSTONE. (109 Beds.)

HOUSE SURGEON to the OPHTHALMIC DEPARTMENT.
HOUSE SURGEON to the EAR, NOSE AND THROAT DEPARTMENT

Applications are invited for the above posts, which will be vacant shortly. Salary for each post at the rate of £200 per annum, with board, residence, and laundry.

Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have had experience in the respective specialities. The Hospital is recognised by the Examining Board for the D.O.M.S. and the D.L.O.

Applications, stating age and qualifications, together with copies of three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, F.H.O.A., Secretary.

WELLINGTON HOSPITAL BOARD, NEW ZEALAND

SURGICAL REGISTRAR.

Applications addressed to the undersigned and endorsed Surgical Registrar are invited up to 9 A.M. on Tuesday, 6th June, 1939, for the position of Surgical Registrar to the Wellington Hospital.

Salary £500 per annum resident or living out allowance in lieu of quarters. Applicants to state earliest date on which they can commence duty. Appointment to be for one year subject to renewal. Preference will be given to holder of post-graduate qualification.

Applicants are requested to state age and experience and enclose copies of references.

J. B. I. COOK, Secretary.

St. Andrew's Hospital, Northampton.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER from registered Medical Practitioners.

Candidates should have previous Mental Hospital experience and a Diploma in Psychological Medicine is essential.

The commencing salary will be £625, rising by two annual increments of £25 to a maximum of £675 per annum, together with unfurnished residence.

Applications, stating age, qualifications, experience, &c., together with three copies of recent testimonials, should be sent to the Medical Superintendent not later than May 24th.

General Hospital, Nottingham.

(389 Beds.)

A RESIDENT ANÆSTHETIST (Male) is required at the above Institution. The appointment is for six months, with salary at the rate of £150 a year, with board, residence, and laundry.

Candidates are desired to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned.

Duties to commence on or about June 1st, 1939.

HENRY M. STANLEY, House Governor and Secretary.

General Hospital, Nottingham.

(389 Beds.)

A HOUSE SURGEON (Male) is required at the above Institution. The appointment is for six months with salary at the rate of £150 a year with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of testimonials, to be sent to the undersigned not later than May 31st.

Duties to commence on Wednesday, July 12th.

HENRY M. STANLEY, House Governor and Secretary.

County of Dorset.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER.

The Dorset County Council invite applications from registered Medical Practitioners with at least three years' experience since qualification, not exceeding forty years of age, for the appointment of Male Assistant County Medical Officer.

Salary commencing at £500 per annum rising (subject to satisfactory service) to £700 by annual increments of £25, together with travelling and out-of-pocket expenses according to the County Scale.

Experience in Refractions and the treatment of Venereal Disease, and the possession of the Diploma in Public Health, will be considered important additional qualifications.

The candidate will be required to reside at Sherborne (or such other place in the County as may be decided upon) to devote his whole time to the service of the County; to act under the direction of the County Medical Officer and perform such duties in connexion with the County Council's Health Services as may be allotted to him.

The post is designated for superannuation purposes, and the successful candidate will be required to pass a medical examination.

Applications on a prescribed form, which may be obtained from me on receipt of a stamped addressed foolscap envelope, must be forwarded so as to be received not later than Monday, the 12th June, 1939.

Canvassing in any form will be a disqualification.

C. P. BRUTTON, Clerk of the County Council.

County Offices, Dorchester, 15th May, 1939.

County Borough of Southampton.

SENIOR ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

The Corporation of Southampton invite applications from duly qualified Medical Practitioners for the above position.

Salary £650 per annum, rising by increments of £50 to £750 per annum.

The successful applicant will be required to carry out work in connexion with the School Medical Services, and any other duties in connexion with the Public Health Services as may be required under the direction of the Medical Officer of Health.

Preference will be given to applicants holding the Diploma in Public Health or equivalent qualification.

Forms of application may be obtained from the Medical Officer of Health, Civic Centre, Southampton.

Applications on the prescribed form, endorsed "Senior Assistant School Medical Officer," together with copies of not more than three recent testimonials, must be delivered at the Town Clerk's Office, Civic Centre, Southampton, on or before the 31st May, 1939.

R. RONALD H. MEGGESON, Town Clerk.

City of Portsmouth.

SAINT MARY'S HOSPITAL. (1050 Beds.)

Applications are invited for the appointment of a JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applicants must be single gentlemen, duly qualified and registered, not exceeding thirty years and must have had at least one year's experience of hospital work. Experience in anæsthetics will be an additional qualification.

The appointment is limited to a term of one year and the salary will be £250 per annum, with residential emoluments valued at £125 per annum. The appointment includes service at any institution belonging to the City Council and will be subject to termination by one month's notice on either side. A Resident Medical Superintendent is in attendance.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Wednesday, 7th June, 1939.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 12th May, 1939.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from July 1st, 1939. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, May 31st, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

Hull Royal Infirmary.

Applications are invited for the post of SECOND HOUSE PHYSICIAN (Male), vacant May 31st. Salary at the rate of £150 per annum, plus board, residence, and laundry. The post is recognised by the University of London for the M.D. Branch 1 (Medicine) Examination.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving age, experience, and nationality, together with copies of recent testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

8th May, 1939.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL).
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence, and laundry.

As the appointee will be required to work mainly in the Surgical Wards, preference will be given to candidates with higher degrees and special post-graduate experience in Surgery.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Tuesday, the 30th May, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull, 8th May, 1939.

Lancashire County Council.

PARK HOSPITAL, DAVYHULME, Near MANCHESTER.

APPOINTMENT OF RESIDENT MEDICAL OFFICER.

Applications are invited from registered Male Medical Practitioners (unmarried) for the following appointment:—

Assistant Resident Medical Officer to be attached to the Obstetrical, Gynæcological, and Surgical Units. Salary £300 per annum.

The usual residential allowances are provided.

The appointment will, in the first instance, be for a period of six months, the successful applicant being eligible for reappointment for a further period of six months at the end of that period.

The hospital comprises 500 beds for acute cases, is fully equipped in every respect and is recognised as a complete Training School for Nurses.

The appointment will be terminable by one month's notice on either side.

Forms of application may be obtained from the County Medical Officer of Health, Hospital and Medical Department, County Offices, Preston, to whom all applications, accompanied by copies of not more than two recent testimonials, must be forwarded so as to be received not later than Wednesday, 31st May, 1939.

GEORGE ETHERTON, Clerk of the County Council.
County Offices, Preston, 8th May, 1939.

UNIVERSITY OF OXFORD

LORD NUFFIELD'S BENEFACTION FOR THE ADVANCEMENT OF MEDICINE

RESEARCH STUDENT IN THE DEPARTMENT OF CLINICAL MEDICINE.

Applications are invited for a Research Studentship in the Department of Clinical Medicine.

The successful candidate will be required to carry out research work under the Nuffield Professor of Clinical Medicine at the Radcliffe Infirmary. The appointment will date from 1st July, 1939, or such near date as may be arranged and will be for one year in the first instance. The salary offered is £300 a year.

Candidates, who must hold a Medical qualification registrable in Great Britain, must send their applications and the names of three referees to Professor WITTS, Radcliffe Infirmary, Oxford, so as to reach him not later than 1st June, 1939.

North Staffordshire Royal Infirmary,

STOKE-ON-TRENT.
(400 Beds.)

The Committee invites applications for the post of HONORARY ASSISTANT SURGEON. Applicants must possess the Degree of Master of Surgery of a British or Irish University, or Fellowship of one of the Royal Colleges of Surgeons of England, Edinburgh, or Ireland.

Canvassing will disqualify, but candidates may send copies of their applications to members of the Election Committee whose names may be obtained from the undersigned, to whom applications, together with copies of three testimonials, should be sent on or before Saturday, May 27th, 1939.

THORNBURROW GIBSON, Secretary and House Governor.
8th May, 1939.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary at the rate of £175 per annum, with board, &c. Candidates must have held an appointment as House Surgeon at a General Hospital and had considerable experience, as the post is a very responsible one.

To commence 12th June, 1939. Six months' appointment and eligible on completion of term for extension.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned not later than 27th May, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 3rd June.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 24th May.

ARTHUR R. CASH, General Superintendent and Secretary.

County Borough of Blackburn.

PUBLIC HEALTH DEPARTMENT.

Applications are invited from registered Medical Practitioners (not under thirty-five years of age) for the full-time appointment of ASSISTANT MEDICAL OFFICER OF HEALTH (Male) for services in connexion with the Council's Scheme for Air-raid precautions.

The duties will be concerned with the organisation, subject to the control of the Medical Officer of Health, of the First-aid and Casualty Air-Raid Precautions Services and will include lecturing in first-aid and team-training of personnel. Previous experience in first-aid work and organisation is desirable though not essential.

The salary will be at the rate of £600 per annum, and the appointment will be, in the first instance, for a period of twelve months, after which it will be reviewed.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Victoria-street, Blackburn, and must be returned, accompanied by three recent testimonials, to the undersigned by Saturday, the 27th May, 1939.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn.

County Borough of Reading.

BATTLE HOSPITAL.

APPOINTMENT OF RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Assistant Medical Officer (Male) at the above Hospital, at a salary of £300 per annum, with board, residence, &c. Candidates must be single. The selected candidate will be required to work under the direction of the Medical Superintendent.

The appointment (which will be determinable by one month's notice on either side) will be for a period of one year, and preference will be given to candidates who are reading for higher qualifications.

Forms of application may be obtained from, and must be returned duly completed to, the undersigned, with copies of three recent testimonials, not later than Thursday, 25th instant. Canvassing, either directly or indirectly, will disqualify.

C. S. JOHNSON, Town Clerk.

Town Hall, Reading, 5th May, 1939.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

SURGICAL FIRST ASSISTANTS.

Applications are invited for the posts of First Assistants to two Surgical Units.

The appointments are whole-time and limited to Hospital practice. They are non-resident and are tenable for one year. Successful candidates will be eligible for re-election for a further period of one year.

Applicants must be Fellows of the Royal College of Surgeons.

The salary attached to each post is £300 per annum with emoluments.

Applications, giving full particulars as to age and previous experience, &c., with copies only of recent testimonials, to be forwarded to the undersigned not later than Wednesday, 31st May, 1939.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

The Royal Infirmary, Sheffield, 6, 2nd May, 1939.

County Antrim Mental Hospital,
ANTRIM, NORTHERN IRELAND.

APPOINTMENT OF RESIDENT MEDICAL SUPERINTENDENT.

The Committee of Management of above Hospital invite applications for the position of Resident Medical Superintendent. Salary £900 per annum, rising £25 yearly to £1000, with free house, fuel and light, washing, and garden, valued at £150 per annum.

Two Assistant Medical Officers reside in the Hospital. At present there are 675 patients, including a Female Private Patients Block.

Applicants must have an extensive experience of the treatment of mental illness. A Degree or Diploma in Psychological Medicine essential.

Applicants must be at least thirty-five years of age, and must satisfy the Committee as to their medical fitness.

The gentleman appointed will be required by the Committee to devote all his time to his professional duties. The appointment will be subject to the provisions of the Asylums Officers Superannuation Act, 1909.

Applications to be made on forms, to be had from the Clerk of the Hospital, to be returned accompanied by copies of recent testimonials, and addressed to the Committee of Management endorsed "Resident Medical Superintendent" and received by the Clerk of the Hospital not later than Saturday, 3rd June, next.

Canvassing, directly or indirectly, prohibited.

By Order of the Committee of Management.
J. WALKER, Clerk.

County Borough of Barrow-in-Furness.

JOINT APPOINTMENT OF OBSTETRIC OFFICER FOR THE COUNTY BOROUGH OF BARROW-IN-FURNESS AND THE LANCASHIRE COUNTY COUNCIL.

Applications are invited from registered Medical Practitioners possessing a higher degree in obstetrics and gynæcology, for the post of Joint Obstetric Officer for the County Borough of Barrow-in-Furness and part of the Administrative County of Lancaster.

The salary will be at the rate of £1000 per annum, with travelling expenses for the County Area in accordance with the County Council's Scale.

The gentleman appointed will be allowed to engage in private and consultant practice, subject to certain conditions, and will be required to reside within ten miles of the Borough of Barrow-in-Furness.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidate satisfactorily passing a medical examination, and to three months' notice on either side.

Forms of application, particulars of duties, and terms of appointment, may be obtained from the Medical Officer of Health, Town Hall, Barrow-in-Furness, and applications endorsed "Obstetrical Officer," with copies of not more than three recent testimonials, must be received by the undersigned not later than Saturday, 3rd June, 1939.

Canvassing, directly or indirectly, is prohibited and will disqualify.

W. LAWRENCE ALLEN, Town Clerk.
Town Hall, Barrow-in-Furness.

The Hospital for Sick Children,
NEWCASTLE-UPON-TYNE.

The Board of Management has declared vacancies for the following appointments:—

(*a*) One HONORARY PHYSICIAN.
(*b*) One HONORARY SURGEON.
(*c*) Two HONORARY ASSISTANT PHYSICIANS.
(*d*) Two HONORARY ASSISTANT SURGEONS.

Applications, stating age and qualifications, are invited for the above appointments and should be sent to the Secretary, Mr. NEIL BRODIE, 18, City-road, Newcastle-upon-Tyne, 1, not later than 31st May, 1939, accompanied with copies of three recent testimonials.

Extract from Rules

"Every candidate for the office of Physician or Assistant Physician shall be a registered Medical Practitioner and a Graduate in Medicine of some University recognised by the General Council of Medical Education and Registration of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians of the United Kingdom. Every candidate for the office of Surgeon or Assistant Surgeon shall be a registered Medical Practitioner and a Graduate in Surgery of some University recognised by the said General Council, or a Fellow of one of the Royal Colleges of Surgeons of the United Kingdom. Candidates for the posts of Physicians, Surgeons, Assistant Physicians and Assistant Surgeons shall be in practice as Consultants and not as General Practitioners."

"Canvassing directly or indirectly for any office shall be deemed a disqualification."

The General Hospital, Birmingham.
(The Birmingham United Hospital.)

Applications are invited from qualified Medical Practitioners for the post of RESIDENT SURGICAL REGISTRAR, for twelve months in the first instance, at a salary at the rate of £100–£10–£120 per annum.

Applications should reach the undersigned as soon as possible.
A. H. LEANEY, House Governor.

Manchester Royal Infirmary.

ASSISTANT HONORARY RADIOLOGIST.

Notice is hereby given that, owing to unforeseen circumstances, the Board of Management do not propose to proceed with the above appointment.

Royal Manchester Children's Hospital,
PENDLEBURY, near MANCHESTER.
(232 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer. Salary £150 per annum. The appointment is for a period of six months, commencing 1st July, 1939. Candidates must be unmarried and duly registered. Previous Hospital experience essential.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Wednesday 31st May, 1939. Canvassing, directly or indirectly, may disqualify.

By order.
H. HEARDMAN, Secretary.

University of Cambridge.

ELMORE MEDICAL RESEARCH STUDENTSHIPS.

The Board of Management of the Frank Edward Elmore Fund will shortly proceed to the award of Two Studentships for Research in Medicine. The Studentships are open to Male Graduates of any University who were born in any country within the British Empire other than Scotland. The students appointed will work in the Department of Medicine in the University of Cambridge, under the direction of the Regius Professor of Physic. The commencing salary will be £300 a year, and the appointment will be for two years in the first instance.

Further information may be obtained from the Regius Professor of Physic, Department of Medicine, University of Cambridge, to whom applications, together with three testimonials, a statement of previous appointments, and copies of published papers, should be sent not later than 20th June, 1939.

Derbyshire County Council.

LOCUM FOR SANATORIUM.

Applications are invited for the post of LOCUM RESIDENT ASSISTANT MEDICAL OFFICER (Male) at WALTON SANATORIUM, near Chesterfield (130 Beds), for a period of eleven weeks, commencing June 10th, 1939. Salary at the rate of £350 per annum, with board, lodging, &c. Experience in artificial pneumothorax desirable.

Applications, together with copies of two recent testimonials, to be sent to the undersigned on or before May 27th, 1939.

W. M. ASH, County Medical Officer of Health.
New County Offices, St. Mary's Gate, Derby, May 12th, 1939.

Manchester Hospital for Consumption
AND DISEASES OF THE THROAT AND CHEST.

Wanted, an ASSISTANT MEDICAL OFFICER (Male) for the CROSSLEY SANATORIUM, Delamere Forest, Cheshire (110 Beds). Salary £200 per annum, with board, apartments, and laundry. Candidates must be registered. The appointment offers an opportunity for gaining experience in modern methods of treating Pulmonary Tuberculosis.

Applications, stating age, with copies of testimonials, to be sent not later than June 5th to W. HUNT, Secretary, 45, Hardman-street, Manchester, 3.

Manchester and Salford Hospital for
SKIN DISEASES (54 Beds, 18,512 Out-patients per annum).—Two ASSISTANT MEDICAL OFFICERS wanted. Fully qualified and registered. To attend three mornings per week each. Salary at the rate of £150 per annum in each case. The appointments are for twelve months from July 1st. Applications, with copies of three testimonials, to be sent to the undersigned on or before June 3rd. JOHN NALL, Secretary.

City of Manchester.

CRUMPSALL HOSPITAL (1400 Beds.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT OBSTETRICAL OFFICER at the above-named hospital, which will become vacant on July 15th, 1939.

The salary for the appointment is £250 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, P.O. Box 399, Hospitals Administration Section, Town Hall, Manchester, 2, and applications for the post must be received by him not later than June 1st, 1939.

R. H. ADCOCK, Town Clerk.
Town Hall, Manchester, 2, 15th May, 1939.

City of Liverpool.

RESIDENT SURGICAL OFFICER.

Applications are invited for the above appointment at SMITHDOWN ROAD HOSPITAL, LIVERPOOL, 15.

The Hospital has 1220 Beds and over 1700 operations are performed annually. The appointment offers wide experience in general surgery.

Candidates must be single, fully qualified, and registered, have had at least two years continuous Hospital experience since qualification and possess special experience in surgery—preferably holding a higher surgical degree.

Salary at the rate of £350, rising by annual increments of £25 to £450 per annum, together with the usual residential allowances. All fees received in connexion with the appointment to be handed over to the City Council.

The appointment will be made in accordance with the Standing Orders of the City Council and will be determinable by one calendar month's notice on either side.

Canvassing, either directly or indirectly, will be deemed a disqualification.

Applications upon forms to be obtained from the Medical Officer of Health, Hospitals Department, Municipal Annexe, Liverpool, to be endorsed "Resident Surgical Officer" and returned to the undersigned so as to be received not later than 10 A.M., Tuesday, 30th May, 1939.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2.

County Borough of West Bromwich.

HALLAM HOSPITAL. (472 Beds.)

HOUSE PHYSICIAN.

Applications are invited from duly qualified Male Registered Practitioners for the above-mentioned post.

The appointment is for six months, with eligibility for a further six months. Either party may give six weeks' notice terminating the appointment. There is a visiting staff of eight Physicians and Surgeons, one Resident Surgical Officer and four Resident Medical Officers.

Salary £200 per annum, and board-residence. All fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be received not later than by first post on Wednesday, 31st May, 1939.

W. S. WALTON, Medical Officer of Health,
Health Department, West Bromwich.

17th May, 1939.

Ancoats Hospital, Manchester, 4.

ASSISTANT MEDICAL OFFICER (Male) required for the Venereal Department Clinics—Syphilis section. Attendance on Wednesday morning 11.30 to 1 o'clock, and Wednesday and Saturday evenings 5.30 to 7 P.M. Salary £1 1s. per attendance.

Applications, stating age, qualifications, and experience, to be forwarded to the undersigned on or before 3rd June, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th June.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S. England or Edinburgh.

Applications, staging age and qualifications, together with copies of three recent testimonials, to reach the undersigned by 2nd June.

Royal Alexandra Hospital for Sick

CHILDREN, BRIGHTON.
(100 Beds.)

HOUSE SURGEON (Male) required. Salary at the rate of £150 per annum, with board, lodging, and laundry. Good experience, no canvassing allowed. To take up duties at the end of June.

Applications in writing, accompanied by testimonials, should be sent forthwith to P. F. SPOONER, the Secretary, at the Hospital.

15th May, 1939.

York County Hospital.

(204 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST and SECOND HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Thursday, 1st June, 1939.

J. R. MACKRILL, Secretary.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEONS (GENERAL SURGERY) TWO
HOUSE PHYSICIAN.

Applications are invited for the above resident posts which become vacant on 1st July next.

The Hospital contains 300 Beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointments are for six months. Salary at the rate of £100 per annum. Board, furnished room, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 15th May, 1939.

The University of Sheffield.

The Council is about to appoint an ASSISTANT LECTURER in PHARMACOLOGY. Salary £350 per annum.

Applications should be sent to the undersigned (from whom further particulars may be obtained) not later than June 5th.

W. M. GIBBONS, Registrar.

The University of Sheffield.

The Council is about to appoint a PROFESSOR of BACTERIOLOGY. Salary £1000 per annum.

Applications should be sent to the undersigned (from whom further particulars may be obtained) not later than June 5th.

W. M. GIBBONS, Registrar.

Leeds Jewish Hospital,

Leopold-street.

RESIDENT MEDICAL OFFICER required, commence duties July. Applications, stating age, qualifications, experience. Married (£200 per annum) or single (£150 per annum). Copies of testimonials should be sent by 1st June to:—

LILY CURITZ, Secretary.

Boston General Hospital.

(70 Beds.)

RESIDENT MEDICAL OFFICER required. To commence duty as soon as possible. Salary £150 per annum with board, residence, and laundry. The appointment is for six months and is renewable.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials should be addressed to the Secretary, Boston Hospital.

Carshalton, Beddington and Wallington

DISTRICT (WAR MEMORIAL) HOSPITAL,
THE PARK, CARSHALTON.

Vacancies occur for Three HONORARY MEDICAL OFFICERS in the above Hospital. Applicants should be resident in the district and duly registered Medical Practitioners.

Applications, stating qualifications and experience should be sent to the Secretary.

County Borough of Newport.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH. (Male.)

Applications are invited for the post of Assistant Medical Officer of Health (Male) at a commencing salary of £600 per annum, rising by annual increments of £25 to a maximum of £750 per annum.

Candidates must be under forty years of age, registered Medical Practitioners, and must possess a Diploma in Public Health or an equivalent qualification.

The person to be appointed must have had special experience in Infectious Diseases (as he will be required to take charge of the Infectious Diseases Hospital) and also in Public Health work, including Maternity and Child Welfare and School Medical Work.

The successful candidate will be required to devote the whole of his time to the duties of the office and to perform such work as may be entrusted to him by the Medical Officer of Health. He will also be required to pass a medical examination as to physical fitness, and to contribute to the Council's Superannuation Fund.

Applications, to be made on forms obtainable at this office and accompanied by copies of three recent testimonials, must reach the Medical Officer of Health, Royal Chambers, High-street, Newport, Mon., not later than Saturday, June 3rd, 1939.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)

Applications are invited for the post of HOUSE SURGEON for CASUALTY DEPARTMENT (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

16th May, 1939.

Sussex Maternity and Women's HOSPITAL, BRIGHTON. (50 Beds.)

RESIDENT HOUSE SURGEON (Male) required. Salary at the rate of £130 per annum, board and washing found, and £40 allowed for travelling expenses. Good experience in midwifery afforded. No canvassing allowed. The successful candidate will be required to enter on his duties on the 19th June. Applications in writing, accompanied by testimonials, should be sent to PERCY F. SPOONER, Secretary, at the Hospital, Buckingham-road, Brighton.
15th May, 1939.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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Lady (young) desires daily post as SECRETARY RECEPTIONIST to Doctor, Clinic, or Hospital. Knowledge shorthand, typing, Surgery routine and care of instruments, &c.—Write, M.B., 21, West Mall, Kensington, W.8.

Assistant required with a view to early Partnership in mixed Practice. Large panel, near Midlands City. Beautiful house and garden. Scotch or English.—Address, No. 598, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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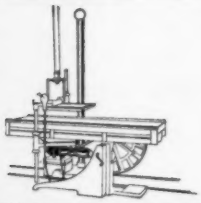

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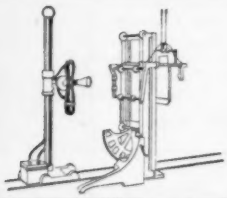

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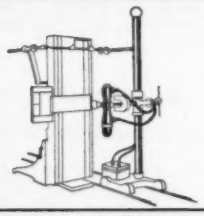

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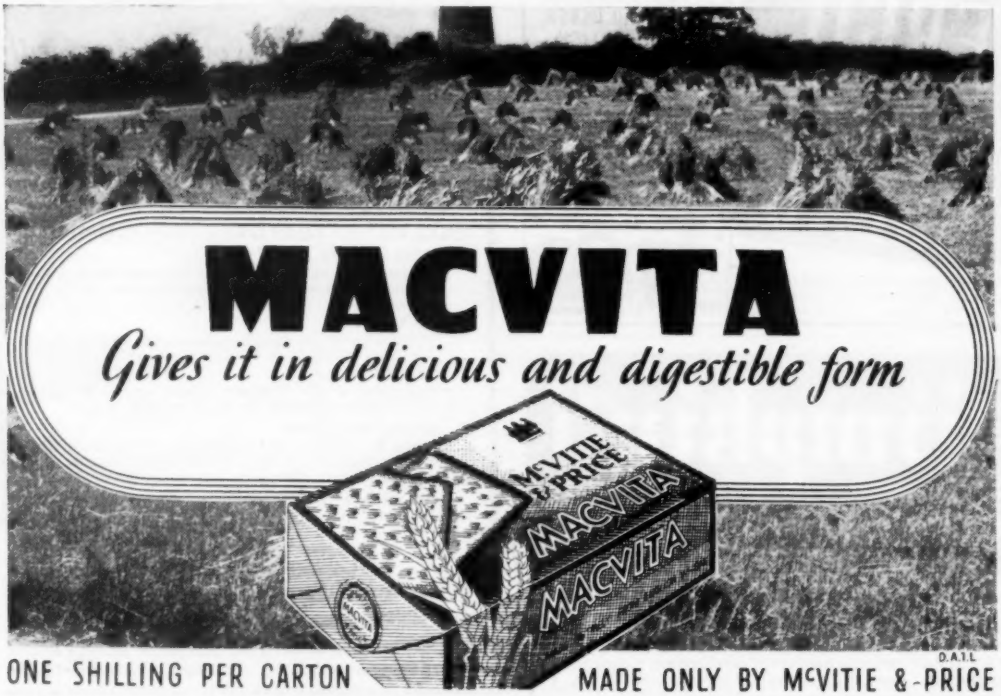

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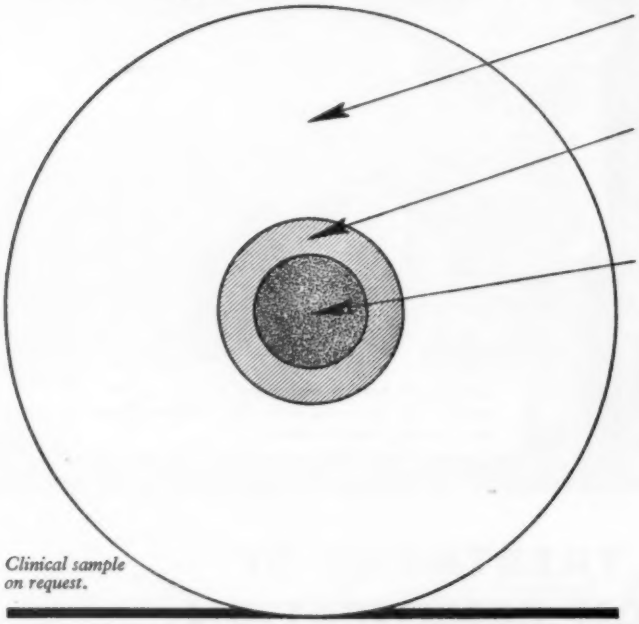

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PABLUM is now being fed to infants as early as the third or fourth month because it gets the baby accustomed to taking food from a spoon, but, more important, Pablum early adds essential accessory food substances to the diet. Among these are vitamins B_1 and G and calcium and, equally essential, iron. Soon after a child is born its early store of iron rapidly diminishes and, as milk is poor in iron, the loss is not replenished by the usual bottle-formula. Pablum, therefore, fills a long-felt need, for it is so well tolerated that it can be fed even to the three-weeks'-old infant with pyloric stenosis, and yet is richer than fruits, eggs, meats, and vegetables in iron. Even more significant, Pablum has succeeded in raising the hemoglobin of infants in certain cases where an iron-rich vegetable failed. Pablum is an ideal "first solid food." *Mothers appreciate the convenience of Pablum as it needs no cooking. Even a tablespoonful can be prepared simply by adding milk or water of any temperature.*

Pablum consists of wheatmeal (farina), oatmeal, wheat embryo, cornmeal, beef bone, alfalfa leaf, brewers' yeast, sodium chloride, and reduced iron.

Mead Johnson & Company, Evansville, Indiana, U.S.A.

MEAD PRODUCTS (Including PABLUM) ADVERTISED ONLY TO PHYSICIANS

Please enclose professional card when requesting samples of Mead Johnson products to cooperate in preventing their reaching unauthorized persons

Brooks & Warburton, Ltd., 232-240 Vauxhall Bridge Road, London, S.W. 1

LIVOGEN

The Reconstructive Tonic

Livogen is a combination of liquid extract of liver, extract of yeast, Vitamin B_1 and nicotinic acid.

Livogen has a wide sphere of usefulness in medical practice as, for example, in the treatment of anæmias (primary and secondary), in the prevention of polyneuritis induced by gastric derangements, and of the polyneuritis of pregnancy and of alcoholism, also in gastro-intestinal disorders (particularly in constipation), in anorexia and in retarded growth.

FORMULA
Each fluid ounce contains:

Liquid Extract of Yeast	Equivalent to 2 oz. of fresh yeast
Liquid Extract of Liver	½ fl. oz.
Vitamin B_1	Sufficient to produce a total of 400 international units
Nicotinic Acid	An appropriate quantity of prophylaxis

Livogen has proved of value also in the treatment of glossitis, ptyalism and various dermatoses, but its outstanding worth is most widely demonstrated as a reconstructive tonic in convalescence and in general run-down conditions.

Sample on request

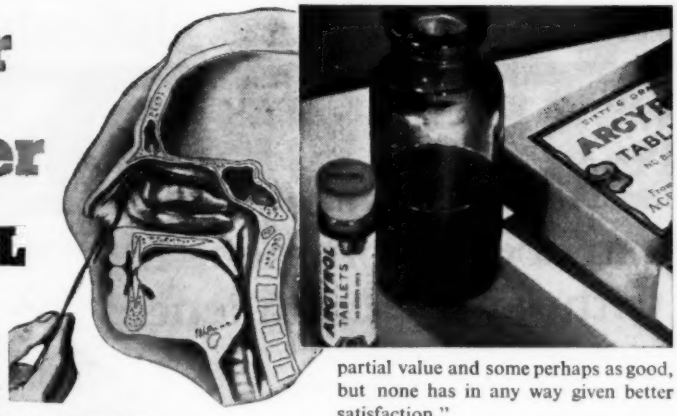
THE BRITISH DRUG HOUSES LTD. LONDON N.1
Telephone : Clerkenwell 3000 Telegrams : Tetradome Telex London

Lgn/S 68

Relief for Hay Fever

—ARGYROL

BRAND SILVER VITELLIN



RELIEF can be afforded in a great many cases by the method advocated by the late Professor E. B. Gleason,* namely, the use of swabs of cotton saturated with 10 per cent. ARGYROL solution placed in the vault of the nose and allowed to remain from 15 minutes to one-half hour. He added that this procedure is a very useful addition to any other form of treatment.

In this connection, Haseltine, of Chicago, wrote : "In my 20 years' experience with the Dowling method, I have, of course, tried many solutions that were recommended as substitutes for ARGYROL. Some are worthless, some of partial value and some perhaps as good, but none has in any way given better satisfaction."

The superiority of ARGYROL is explained by the fact that it is not just another "mild silver protein." It is different because its constituent elements are different. ARGYROL is in a class by itself — *sui generis*. It is the only silver salt which retains its mildness in increased concentration. For best results specify ARGYROL.

★*Manual of Diseases of the Nose, Throat and Ear, 1933, page 98.*

ARGYROL is issued in bottles of 1 oz. crystals and boxes of 3 tubes of 6 grain tablets.

Sole Distributors :

FASSETT & JOHNSON, LTD.,
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THERE IS ONE AND ONLY ONE "ARGYROL," MADE ONLY BY : A. C. BARNES COMPANY. SOLE MAKERS OF ARGYROL AND OVOFERRIN

TANNA-FLAVINE

In the Treatment of Burns

Tanna-flavine, a specially-prepared combination of tannic acid and Acriflavine 'B.D.', is employed in a solution of suitable strength in the routine treatment of burns.

Absorption of toxins is inhibited, and shock is reduced; protection from external contamination is provided, and rapid granulation of scarred tissue is promoted under the coagulum formed; pain is relieved, and a minimum of scarring remains when healing is complete.

For minor burns and scalds and as a first-aid measure, the use of Tanna-flavine Jelly is recommended. The jelly forms a protective covering over areas in which there is no marked destruction of tissue and, when used as a first-aid dressing on large burns, the efficacy of subsequent treatment with Tanna-flavine solution is not prejudiced.

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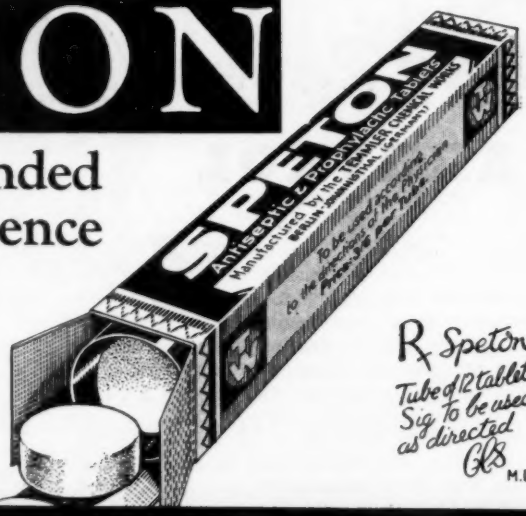
Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

TF/S/1

In contraceptive difficulties

SPETON

can be recommended with every confidence



℞ Speton
Tube of 12 tablets
Sig. To be used as directed
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Safe Salicylate Therapy

THE popularity of acetyl-salicylic acid is undoubtedly due to the fact that it is one of the safest and most effective non-narcotic analgesics available. Too often, however, its use has been discarded by the physician on account of its tendency to irritate the stomach and because entirely pure preparations are not always available.

"Alasil" provides the beneficial therapeutic effects of pure acetyl-salicylic acid in such a form that it is acceptable even by disordered digestions. This tolerability is due to the fact that it combines calcium acetyl-salicylate—the least irritating salicylate compound—with "Alocol," a potent gastric sedative and antacid.

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M287

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FORMERLY KNOWN AS GARGARISMA FORMALIN CO. (HEWLETT'S)

An excellent preparation containing Formalin, Glyc. Acid. Carbolic., Tinct. Pyrethri, etc. When diluted in the proportion of one drachm in eight ounces of water, it forms an efficient Gargle for infectious Sore Throat, etc., or an Antiseptic Mouth Wash.

In 5 oz., 10 oz., 22 oz., 40 oz., and 90 oz. bottles.

Introduced and prepared only by

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MAGNESIUM TRISILICATE

MAGSORBENT

has been tried, tested and PROVED to be the safest and most effective of modern ANTACIDS

Supplied in the form of Tablets and Powder.
Samples on request.

INDICATIONS

Magsorbent is specially indicated in the treatment of Chronic Peptic Ulcer, Hyperchlorhydric Dyspepsia and Acid Fermentation. Magsorbent has also a powerful adsorptive action, and it cannot produce toxic alkalosis.

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safe, gentle, and palatable.

LIXEN is an extract of senna prepared by a special cold process to allay the griping action. The absence of an after-constipating effect gives it a special value in habitual constipation, and its gentle, though efficient, action, together with its pleasant flavour, makes it particularly acceptable to women, children, elderly and delicate persons, and convalescents, for whom the finding of a satisfactory aperient is often difficult.

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In bottles of 2 oz. 1/-, 4 oz. 1/9, 8 oz. 3/-, 16 oz. 5/6.
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In tins of 12, 7½d., 24, 1/-, and bottles of 100, 3/6.
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A full size specimen packing will be sent to any physician on request

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Vol/S/14

'PANOPEPTON'

AN IDEAL FOOD FOR INVALIDS

'PANOPEPTON' can be relied upon in cases where the nutrition of the patient is of prime importance.

'PANOPEPTON' possesses remarkably restorative and stimulating properties.

A free sample will be sent to members of the Medical Profession on request.

Supplied in 12-oz. bottles.

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'PEPSENCIA' **is an ever-ready digestive fluid,** containing all the soluble constituents of the gastric juice preserved in an agreeable aromatic menstruum.

It represents both the peptic and milk-curdling ferments obtained directly from the fresh peptic glands.

Supplied in four sizes:

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desoxycorticosterone acetate

A powerful thermostable principle of the suprarenal cortical extract CORTIN.

PROGEST-ORAL

anhydro-oxy-progesterone

A substance like PROGESTIN but active by mouth.

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(Compound Calcium Mandelate B.D.H.)

Three outstanding features of Mandecal treatment:

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2) No nausea is experienced by the hypersensitive patient and the treatment is acceptable to children and is not objectionable to adults.

3) A sterile urine is rapidly produced, even in the most resistant cases.

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PHYSOLACTIN

the physiological stimulant of milk secretion

Physolactin (Lactogenic Hormone G.L.) represents the practical application of the most recent concepts of the hormonal control of lactation. It is an active lactogenic preparation derived from pituitary and is presented as a concentrate in aqueous solution. Undesirable physiologically active substances have been removed. Physolactin is particularly successful in stimulating the normal secretion of breast-milk in cases where the flow is not satisfactory by the sixth or seventh day. It has also been used with success as late as the sixth week after parturition. The effects of Physolactin are apparent usually 24-36 hours after the first dose.

Every batch of Physolactin is tested biologically so that 1.0 cc. contains not less than 60 Riddle-Bates units of prolactin. The lactogenic potency of every batch is also confirmed by clinical tests.

The preparation is administered by intramuscular or deep subcutaneous injection into the thigh. Dosage is 5 cc., 5 cc., 2 cc., 2 cc., and 1 cc., on five successive days. Physolactin is issued in 15 cc. bottles, to provide a full course of treatment.

15 cc. bottles, rubber-capped, 17/6

This price (not applicable in Eire) is subject to usual professional discount.

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(Squire's Glycerophosphate Syrup with Strychnine)

A combination of the essential minerals, Iron, Calcium, Potassium and Sodium with assimilable Phosphorus and Strychnine

Indicated in cases of

Nervous Irritation Depression Lack of Energy

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Particularly suitable during the convalescence from Influenza

In 6 oz. and 12 oz. bottles. Dose: Two teaspoonfuls three times a day.

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Agarol simplifies the treatment of constipation by making it pleasant; children not only take Agarol with the greatest of ease but actually enjoy it.

This palatable emulsion of mineral oil and agar-agar with phenolphthalein is the ideal treatment for constipation in children. It is gentle in action and furnishes the natural stimulus to a comfortable and normal peristalsis. Its capacity for lubricating the bowel, softening the faecal mass and easing its passage to the rectum and final expulsion, is unsurpassed.

Further advantages of Agarol are that it is not habit-forming and, by mixing freely with the intestinal contents, it makes the occurrence of seepage extremely improbable.

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BRAND COMPOUND

Agarol is not advertised to the public. Supplied in 4½ oz., 7½ oz. and 17 oz. bottles.

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Uniformity and high nutritive qualities now available for general prescription

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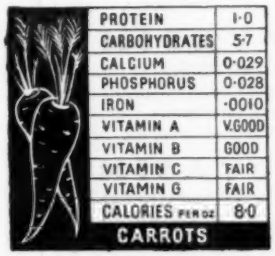

PROTEIN	1·0
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CALCIUM	0·029
PHOSPHORUS	0·028
IRON	·0010
VITAMIN A	V.GOOD
VITAMIN B	GOOD
VITAMIN C	FAIR
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CALORIES PER OZ	8·0

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A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)

Vegetable and fruit purées, rich in mineral salts, vitamins and other soluble nutriment, constitute the perfect diet for infants and cases of nutritional anaemia.

But despite the wide approval shown by physicians, and a growing appreciation of this dietary by mothers, progress has hitherto been slow, owing to the practical difficulties encountered in home preparation.

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The purées thus offered are uniform, convenient and of the highest possible nutritive content.

NOTE: *Glass containers are not used owing to the deleterious effect of light on the value and palatability of the purées.*

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***DAGENAN (M & B 693)**

(2-sulphanilyl-aminopyridine)

Active against

Pneumococcus **Gonococcus**
Meningococcus **Streptococcus**
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A number of cases of **staphylococcal infections** have also responded well to the administration of **M & B 693.**

Containers of 25 *tablets at* 7*s.* 6*d.*

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(Benzyl-sulphanilamide)

For oral administration in the treatment of **Streptococcal Infections.**

Containers of 25 *tablets at* 4*s.* 6*d.*

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Disodium-*p* (*y*-phenyl-propyl-amino) benzenesulphonamide-*a*-*y*-disulphonate.

For parenteral administration in the treatment of **Streptococcal Infections,** where the presence of a streptococcicidal agent in the blood stream is urgently required.

Boxes of 6 *x* 5 *c.c. ampoules* 10% *soln. at* 10*s.* 6*d.*

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Prepared for the exhibition of the drug to **microbic** and, in particular, **streptococcal infections of the skin** or **mucous surfaces,** such as **impetigo, ulcers, acne etc.**

Tubes of 1 *oz. at* 2*s.* 6*d.*

Prices subject to professional discount.

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An Important Advance in Infant Feeding

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Physiological tests show that "Veguva" Foods are rich in vitamins, easily assimilable organic iron and other important mineral salts which are essential to normal development and well-being and prevent the onset of deficiency disorders.

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M 291

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THE IRON DEFICIENCY ANÆMIAS
DEBILITY AND FATIGUE

Colliron contains ten per cent. of iron in the form of Colloidal Iron Hydroxide. Owing to this high concentration, treatment is most economical in cost.

Colliron is free from the astringent effect of the soluble salts of iron, and is therefore very well tolerated in massive dosage.

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4 fld. oz. **3/-** 16 fld. oz., **9/8**
8 fld. oz., **5/4** 40 fld. oz., **22/-**
80 fld. oz., **40/-**

A product of the Evans Biological Institute.

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'ALUDROX' is the new therapy for the treatment of peptic ulcer and hyperacidity. It is an amphoteric substance which effectively neutralizes gastric hydrochloric acid without producing an alkaline reaction in the stomach. Even prolonged use cannot produce alkalosis or secondary acid rise. 'ALUDROX,' a palatable colloidal suspension of aluminium hydroxide, mixes readily with water or milk, or may be administered undiluted if desired. May we send samples and literature ?

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Supplied in bottles of 20, 40, 80, 160 and 500 (10 grain) tablets, at 1/6, 2/6, 4/6, 8/6 and 20/-

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Supplied in bottles at 2/6 and 4/6.

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is a chemical compound containing 47% of iodine and 43% of thiosinamine, and gives really satisfactory results in a large percentage of cases of rheumatoid arthritis and allied conditions.

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"Dear Sirs,

"Very many thanks for the sample of Iodolysin Capsules. The patient to whom I gave them felt considerable improvement in her joint condition, and is now taking them regularly. I have found them the most satisfactory treatment for arthritic cases and have had numerous successful results.

Yours faithfully,

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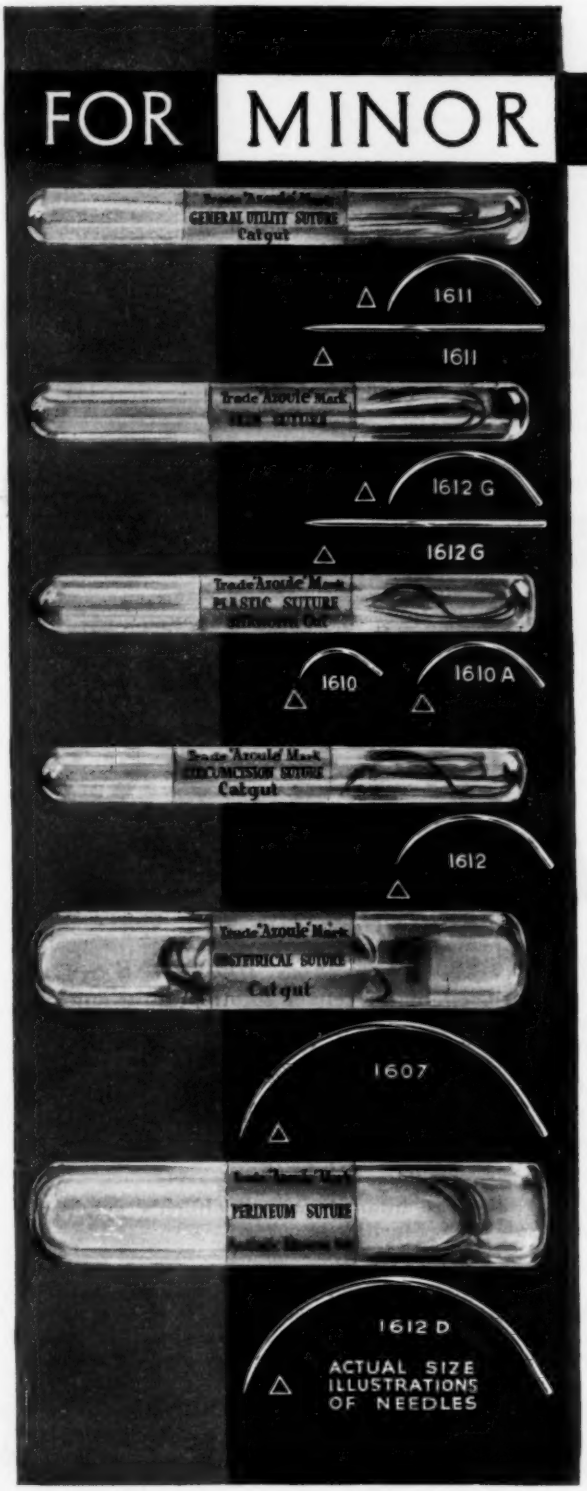

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(ANTROIDIN)

THE ANTERIOR-PITUITARY-LIKE SEX HORMONE

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FEMALE: Functional uterine bleeding, amenorrhœa and oligomenorrhœa. Dysmenorrhœa. Abortion, habitual or threatened.

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Antuitrin 'S' ('Antroidin') is standardized to contain 100 rat-units per c.c. and is issued in rubber-capped vials of 10 c.c. It is also supplied in vials of 5 c.c. containing 500 rat-units per c.c. A comprehensive brochure describing the properties of Antuitrin 'S' is available to members of the medical profession on request.

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First commercial product prepared with pure Crystalline Insulin.

Prescribers and patients have good reason for reliance upon its dependability.

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Made with **CRYSTALLINE INSULIN**

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(with ZINC)—Suspension

May be used alone, or in association with, unmodified insulin to control glycosuria by one daily injection.

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SCANTY, painful or irregular menstruation usually results in fixed, faulty physiological habits. Treatment is more successful if instituted early.

Take advantage of an endocrine product which represents the best thought of research and clinical medicine.

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BOTTLES OF 100 TABLETS

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For the treatment of conditions
associated with
HIGH BLOOD PRESSURE

HYPOTENSYL

a synergistic combination of the active principles of Viscum Album (Mistletoe) with hepatic and pancreatic extracts.

HYPOTENSYL has a double therapeutic action : it effectively lowers blood pressure and affords early relief of hypertensive symptoms, headache, vertigo, and tinnitus.

In cases of essential hypertension or benign hyperpiesia it accentuates the benefit obtained from controlled diet and rest, and gives good results in the treatment of high blood pressure due to fibrotic kidney, or accompanying pregnancy.

Supplied in bottles of 50, 250, 500, & 1000 tablets

Prescribe 3 to 6 tablets daily, half an hour before meals, in courses lasting two or three weeks, with a week's interval between.

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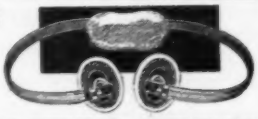

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Subject:

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Further particulars may be had on application to the Hon. Secretary, Post-Graduate Courses in Medicine, University New Buildings, Edinburgh, 8.

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The field of candidates is confined to those who are, who have been or who may be, responsible directly for collecting the material and filling in the Case Sheets of the Clinical Cancer Research Committee of the Campaign.

All essays must be delivered at the offices of the British Empire Cancer Campaign not later than 1st July, 1940. A copy of the complete rules and regulations relating to the Prize can be obtained on application to:—**The General Secretary, British Empire Cancer Campaign,** 11, Grosvenor Crescent, Hyde Park Corner, London, S.W. 1.

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Forms of application may be had from the Secretary to the University.

H. J. BUTCHART, Secretary.

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NOTICE IS HEREBY GIVEN that the ANNUAL GENERAL MEETING OF GOVERNORS will be held at the OFFICE, 49, BEDFORD-SQUARE, W.C.1, on Friday, June 16th, 1939, at 4 P.M., when the names of the Pensioners and Foundation Scholars appointed by the Conjoint Committee will be announced.

Under the Acts of Incorporation, ten Members of the Council will retire at this Meeting. It will be proposed :—

(1) That the following be re-elected for a further period of three years: Mr. T. D. BARCLAY, Dr. C. LUTHER BATTESON, Mr. J. S. COTMAN, Mr. CLAUDE FRANKAU, C.B.E., D.S.O., M.S., F.R.C.S., Dr. S. MORTON MACKENZIE, BRIGADIER GENERAL G. T. MAIR, C.M.G., D.S.O., Dr. HENRY ROBINSON, D.L., J.P., and Mr. GEORGE E. WAUGH, F.R.C.S.

(2) that Mr. GEORGE HENRY ALLEN and LIEUT.-COLONEL R. MAREHAM CARTER, C.B., F.R.C.S., be elected to fill vacancies.

(3) that Dr. HAROLD SPITTA, M.V.O., and Dr. HORACE C. COLMAN be appointed Vice-Presidents; and

(4) that COLONEL NORMAN C. KING, Mr. HORACE H. REW, and Mr. H. A. DEEKER, F.C.A., be appointed Auditors for the ensuing year.

By Order of the Council,
W. L. GIFFARD (Major), Secretary.
49, Bedford-square, London, W.C.1, 20th May, 1939.

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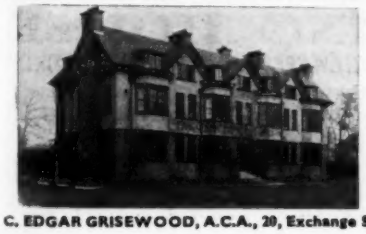

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Telegrams and Telephone: WICKHAM MARKET 216. (Toll Call from London.) *Proprietors:* THE NORWOOD SANATORIUM, LIMITED.

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For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction.

Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

Fully equipped gymnasium and indoor swimming pool under qualified instructors. Facilities under special recreational therapists for all indoor and outdoor games, including squash, badminton, table tennis, golf, cricket, football, hockey, lawn tennis, croquet, and bowling. The hospital has its own Church, Library, Cinema, and Café.

The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* **Dumfries 1119.**

RUTHIN CASTLE, NORTH WALES

A Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The Clinic is provided with a staff of doctors, technicians and nurses.

The surroundings are beautiful. The climate is mild. There is central heating throughout. The annual rainfall is 30·5 inches, that is, less than the average for England.

The inclusive weekly fees are from 15 guineas a week, according to the room occupied; rooms with bathroom are from 21 guineas. An examination and consultation fee of 15 guineas is charged on the first visit only.

SPECIAL FEE FOR INVESTIGATION ONLY—30 GUINEAS, including stay up to 10 days and report to doctor. For particulars, apply to

THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

The MUNDESLEY SANATORIUM

The central building makes the Mundesley Sanatorium the best equipped building in England for the cure of Tuberculosis. All the bedrooms have hot and cold running water, electric light, and wireless head-phones. The public rooms are spacious and comfortable.

Resident Physicians:
S. VERE PEARSON,
M.D. (Cantab.), M.R.C.P. (Lond.).
E. C. WYNNE-EDWARDS,
M.B. (Cantab.), F.R.C.S. (Edin.).
GEORGE H. DAY,
M.D. (Cantab.).

For all information apply:
THE SECRETARY,
THE SANATORIUM,
MUNDESLEY, NORFOLK.
Telephone: Mundesley 94 and 95 (2 lines)

The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

TERMS FROM 7½ GUINEAS WEEKLY

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2841 and 2842.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coln, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

HURSTWOOD PARK HOSPITAL AND BEECHMONT HOUSE

HAYWARDS HEATH, SUSSEX

The Committee of the Brighton Mental Hospital have provided accommodation for private patients of both sexes where the treatment of nervous disorders from the earliest stages is undertaken, e.g., psycho-therapy, occupational methods and hydro-therapy in Hurstwood Park Hospital there are fully equipped surgical and dental units and bio-chemical and bacteriological laboratories. Hurstwood Park Hospital and Beechmont House are situated in pleasant woodland entirely separated from the main institution and have some of the finest views in Sussex.

Brochure on application to the Medical Superintendent. *Telephone: Haywards Heath 897.*

THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (a) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (b) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344: or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4. *'Phone:* CITY 4697.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

BROMPTON HOSPITAL

and FRIMLEY SANATORIUM

PAYING PATIENTS RECEIVED

BOTH MEDICAL and SURGICAL CASES

5 to 8 guineas per week at the Hospital. 3 to 4 guineas per week at the Sanatorium

APPLY TO THE SECRETARY:—BROMPTON HOSPITAL, S.W.3

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES — Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (3 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: DR. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

RUSSELLS

Hemel Hempstead Road, WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,** *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

KINMEL HALL *Rheuma Spa*

Modern Spa Treatments, Including Continental Piscany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*

ABERGELE - NORTH WALES

Smedley's Great Britain's Greatest Hydro Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 12s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.* *'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

THE RETREAT, YORK

The Pioneer Hospital for the humane treatment of those suffering from Nervous and Mental Disorders, opened 1796.

This Hospital, administered by a Committee of the Society of Friends, combines what is best in the newer methods of investigation and treatment of nervous and mental illness with a sympathetic and friendly atmosphere.

The hospital, of 200 beds, admitted last year 110 patients, of whom 79 entered on a voluntary basis. It cannot be too widely known that much curative work is accomplished in modern mental hospitals today, and it is not generally appreciated that the recovery rate compares very favourably with that of General Hospitals.

For information and terms of admission, apply to

THE PHYSICIAN SUPERINTENDENT

Dr. Arthur Pool.

Royal Eye Hospital,

St. George's Circus, S.E.1.

Applications are invited for the posts of REFRACTIONIST to the L.C.C. Children's Department. Monday mornings and on Friday mornings. Salary £80 per annum.

Applicants are requested to state which afternoon they could work as Clinical Assistant (in conjunction with either of the above posts) for which an honorarium of £20 per annum will be paid.

Applications to the Secretary on or before 31st May.

F. E. D'ALTON, Secretary.

The Medical College of St. Bartholomew's

HOSPITAL, E.C.1.

Applications are invited for the post of SENIOR DEMONSTRATOR OF PHYSIOLOGY at St. Bartholomew's Hospital Medical College, commencing October 1st, 1939.

Further information may be obtained from the Dean, to whom applications should be sent not later than Saturday, June 10th, 1939.

Bolingbroke Hospital,

Wandsworth Common, S.W.11. (135 Beds.)

Required: HOUSE SURGEON (Male, unmarried). CASUALTY OFFICER (Male, unmarried).

The appointments are for six months, commencing on the 1st July, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before June 7th, 1939.

W. S. RANDOLPH BISS, Secretary-Superintendent.

St. Mary's Hospital, London, W.2.

PHYSICIAN IN CHARGE OF THE DEPARTMENT FOR DISEASES OF CHILDREN.

Applications are invited for the above vacancy on the Honorary Medical Staff of the Hospital.

Candidates must be Fellows or Members of the Royal College of Physicians of England. Applications, with copies of testimonials not exceeding six in number, must reach the undersigned on or before Monday, 19th June, 1939.

The appointment is for five years, at the expiration of which term, the holder will be eligible for re-election. A list of duties attaching to the office may be obtained on application.

W. PARKES, House Governor.

Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE SURGEON is required on 1st July, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Thursday, 1st June, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A CASUALTY OFFICER is required on 1st July, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Thursday, 1st June, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Westminster Hospital,

Broad Sanctuary, S.W.1.

Applications are invited for the following appointments:—

CHIEF OBSTETRIC ASSISTANT AND REGISTRAR.

Duty commencing July 1st, 1939. Candidates must be Fellows of the Royal College of Surgeons (England), not engaged in general practice. The appointment is for one year, subject to annual re-election for two subsequent years. Salary £200 per annum paid by the House Committee and £50 per annum paid by the School of Medicine Committee.

HONORARY ANÆSTHETIC ASSISTANT AND REGISTRAR.

Duty commencing 1st July, 1939. Candidates must be registered Medical Practitioners. The appointment is for one year, subject to annual re-election for two subsequent years.

Ten copies of applications, together with ten copies of three recent testimonials, should be submitted to the undersigned on or before Friday, 2nd June, 1939.

CHARLES M. POWER, Secretary.

Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Applications are invited for the post of RADIOLOGIST to the above Hospital.

The Radiologist will be in sole charge of the Radiological department, which houses Diagnostic and Superficial Therapy equipment. Attendances required will be four sessions weekly, on separate days. An adequate technical staff is maintained.

Terms of appointment for one year and renewable thereafter.

Remuneration £350 per annum.

Applications, together with copies of three recent testimonials, to be sent to the undersigned on or before Friday, the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Wanted a REGISTRAR to the EAR, NOSE AND THROAT DEPARTMENT, to assist the Aural Surgeon, who is in charge of that department. The appointment carries with it an honorarium of 50 guineas per annum.

Attendance will be required at the Hospital on Tuesday and Friday mornings at 9 A.M.

Applications from candidates, who must be Fellows of the Royal College of Surgeons, accompanied by copies of three testimonials, to be sent to the undersigned not later than Friday the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

Two HOUSE PHYSICIANS and One HOUSE SURGEON are required. Duties to commence on the 1st July, 1939.

The appointments are tenable for six months. Salaries at the rate of £50 per annum.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 5th June, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th June, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

May, 1939.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of June, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 30th May, 1939.

West London Hospital,
Hammersmith, W.6. (239 Beds.)

Required as soon as possible one RESIDENT ANÆSTHETIST (Male or Female). The appointment is tenable for six months and is terminable by one month's notice on either side. Salary at the rate of £100 a year with full board and lodging. Candidates must be registered under the Medical Act.

Applications, with full particulars of age, Medical School, qualifications, and experience, and accompanied by copies of testimonials, must reach me not later than first post on Thursday, 1st June. Candidates will be required to attend a meeting of the Medical Council at 4.30 P.M. on Friday, 2nd June, and the House Committee Meeting at 5 P.M. the same day, when the appointment will be made.

H. A. MADGE, Secretary.

West London Hospital,
Hammersmith, W.6. (239 Beds.)

Required a RESIDENT CASUALTY OFFICER (Male or Female). The appointment is tenable for six months from 1st July next and is terminable by one month's notice on either side. A considerable portion of the duties will be in connexion with the Special Injuries Clinic. Salary at the rate of £100 a year with full board and lodging. Candidates must be duly qualified registered Medical Practitioners and preference will be given to those who have held a resident appointment at a General Hospital.

Applications (which must be on printed forms obtained from me) must reach me not later than first post on Friday, 9th June. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a Special Meeting of the Medical Council at 4.30 P.M. on Friday, 23rd June, and the House Committee Meeting the same day, when the appointment will be made.

H. A. MADGE, Secretary.

British Postgraduate Medical School.

Applications are invited for the post of FIRST ASSISTANT (non-resident) in the DEPARTMENT OF SURGERY at the above-named School. Candidates should hold a higher qualification and have some experience in orthopædic surgery. The post will be whole time. Salary three hundred pounds (£300) to five hundred pounds (£500) per annum, according to experience and qualifications.

Further particulars can be obtained from the Dean of the School, Ducane-road, Shepherd's Bush, London, W.12, to whom applications, accompanied by two testimonials and giving the names of two referees, should be addressed, to arrive not later than the first post on Monday, 5th June, 1939.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)
(257 Beds.)

HOUSE PHYSICIAN required for six months as from 1st July. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd June to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society.

13th May, 1939.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)
(257 Beds.)

HOUSE SURGEON required for six months as from 1st July. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent in on or before 2nd June to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society.

13th May, 1939.

The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the post of HONORARY ASSISTANT OBSTETRICIAN. Yearly appointment, maximum three years. Duties to commence in June.

Further particulars of the post can be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 2nd June.

Central London Throat, Nose and Ear
HOSPITAL, Gray's Inn-road, London, W.C.1.

REGISTRAR.

Applications are invited for the post of Registrar, who will be required to attend half-a-day daily, and to commence duties on 1st July. The successful candidate should hold one of the higher qualifications in surgery or the D.L.O. or should undertake to obtain one of these qualifications within a year.

Salary at the rate of £150 per annum.

Further particulars of the appointment may be obtained from the undersigned, to whom applications, accompanied by copies of three recent testimonials, should be sent on or before 12th June.

JOHN H. YOUNG, Secretary-Superintendent.

Saint Pancras Borough Council.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the above appointment at a salary of £500 per annum. The successful candidate will be under the direction of the Medical Officer of Health and will be required to devote the whole of his time to work in connexion with the Council's Air Raid Precautions Scheme and to commence duties as soon as possible.

Applicants should have had experience in lecturing and training in First Aid and anti-gas Precautions.

The appointment may be determined by either party by one month's notice.

Applications, stating age, qualifications, any commitments to the fighting Services, with copies of three recent testimonials, to be submitted to the undersigned not later than the 3rd June, 1939.

A. POWELL COKE, Town Clerk.

St. Pancras Town Hall, Euston-road, London, N.W.1, 18th May, 1939.

General Lying-in Hospital, York-road,

Lambeth, S.E.1.

Applications invited for the post of JUNIOR RESIDENT MEDICAL OFFICER AND ANÆSTHETIST. Salary at the rate of £100 per annum, with board, residence, and laundry. Appointment for three months, commencing 1st July, 1939. The successful candidate will, subject to satisfactory service, be required to succeed to the Senior Medical Officer's post for a further three months.

Applications, stating age and qualifications, with copies of three recent testimonials, to be sent to the Secretary not later than Monday, 12th June, 1939.

Royal Masonic Hospital,

Ravenscourt Park, London, W.6.

RESIDENT SURGICAL OFFICER (Male) required. Duties to commence 1st July, 1939. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments in General Hospitals. Masonic qualifications unessential.

The Institution (145 beds at present, but to be increased) is primarily for Paying Patients of both sexes of moderate means, usually unable to afford ordinary Nursing Home Treatment, &c.

Applications, stating full particulars, to be sent on or before Wednesday, 14th June, 1939, to the Honorary Secretaries, from whom further information may be obtained.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the post of PHYSICIAN for Diseases of the Skin (Second) at the above Hospital.

Candidates must possess the degree of M.D. or M.B. obtained by Examination at a British University, and be Fellows or Members of the Royal College of Physicians.

Full particulars of the appointment and details with regard to the submission of testimonials, &c., may be obtained from the undersigned to whom applications should be returned not later than June 9th, 1939.

GILBERT G. PANTER, Secretary.

St. Peter's Hospital for Stone, etc.,

Henrietta-street, Covent Garden, W.C.2.

The appointment of CLINICAL ASSISTANTS to the undermentioned members of the Honorary Staff, who attend the Out-patients Department at the times indicated, will be considered at an early date. A fee of Five Guineas becomes payable to the funds of this Hospital on appointment, and applications should reach the undersigned on, or about, Tuesday, 5th June.

Mr. JOHN SANDREY	Mondays	3	to 6	P.M.
Mr. ALBAN ANDREWS	Tuesdays	2	,, 5	P.M.
Mr. R. OGIER WARD	Wednesdays	3	,, 7	P.M.
Mr. F. J. F. BARRINGTON	Thursdays	3	,, 7	P.M.
Mr. R. OGIER WARD	Fridays (Women and Children)	9.30	,, 11.30	A.M.
Mr. ALBAN ANDREWS	Fridays (Male out-patients)	3	,, 6	P.M.
Mr. JOHN SANDREY	Saturdays	2	,, 6	P.M.

BEECHEY ROGERS, Secretary.

City of Westminster.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (age limits 35–55 years) for the post designated above. The appointment is mainly for administrative purposes, and candidates must show evidence of such experience. The salary will be at the rate of £600 per annum. The appointment, which is a temporary one but whole-time, may be terminated by either party at any time by one month's notice.

Applications, on forms to be obtained from the undersigned, must be returned not later than 10 A.M. on Saturday, the 3rd June, 1939.

PARKER MORRIS, Town Clerk.

City Hall, Charing Cross-road, W.C.2.
22nd May, 1939.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

London County Council.

Applications invited for appointment as RESIDENT MEDICAL SUPERINTENDENT of ST. JAMES'S HOSPITAL, Ouseley-road, Balham, S.W.12. (898 Beds.) Salary £1300–£50–£1550 with emolument of unfurnished house, with payment by Council of rates. Person appointed will be under direction of Medical Officer of Health, and may be required to undertake duties at other establishments of the Council. Candidates must be qualified Medical Practitioners of five years' standing, have been house physician or house surgeon in public general hospital and have had experience of hospital administration.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Clerk of the Council, County Hall, S.E.1, returnable by 13th June. Canvassing disqualifies.

Connaught Hospital,

Walthamstow, E.17.
(118 Beds with four Resident Medical Officers.)

Applications are invited for the following appointments:—
(a) HOUSE PHYSICIAN (Male).
(b) HOUSE SURGEON (Male).
(c) CASUALTY OFFICER (Male).

Salaries at the rate of £110 per annum with residence, board and laundry. The appointments are for six months commencing, on the 1st July, 1939.

Applications, stating age, nationality, qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be received on or before Saturday, 17th June.

R. HALTON HARRISON, General Secretary.

Royal Free Hospital and London

(R.F.H.) SCHOOL OF MEDICINE FOR WOMEN.

Applications are invited from registered Medical Practitioners for the post of RESIDENT ASSISTANT PATHOLOGIST in the Pathology Unit. Preference will be given to applications received from former students of the School.

Salary £150 per annum. Full-time.

The appointment is for six months, from 1st September, 1939. Applications must reach one of the undersigned, who will supply further particulars, by first post on Friday, 16th June, 1939.

RICHARD T. BARTLEY, Secretary, Royal Free Hospital, W.C.1.
NANCIE MOLLER, Warden and Secretary, London (R.F.H.) School of Medicine for Women, Hunter-street, W.C.1.

Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(135 Beds.)

Applications are invited for the post of ASSISTANT PHYSICIAN to the above Hospital. Candidates should be doubly qualified, duly registered in this country and Fellows or Members of the Royal College of Physicians, London. They should also have in view the fact that the early removal of the In-patient Department of the Hospital to Banstead, Surrey, is in contemplation.

A list of the Honorary Medical Staff, on whom candidates are expected to call, and other necessary information can be obtained from the Secretary, to whom all applications should be sent not later than the 17th June, 1939.

The Queen's Hospital for Children,

Hackney-road, E.2.
(167 Beds.)

The Board of Management invite applications for the post of ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England. Attendance required on two half-days weekly (including Tuesday mornings for Out-patients). The appointed candidate will have charge of beds. An honorarium to cover travelling expenses will be paid.

Further information may be obtained from the undersigned, to whom applications, with copies of three recent testimonials, should be sent not later than June 17th, 1939.

CHARLES H. BESSELL, Secretary.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-RAY DEPARTMENT.

Candidates must be fully qualified medically.

Experience in radiology essential. Honorarium £100 per annum. Attendance five half-days weekly.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than Saturday, 10th June, 1939.

ARTHUR G. ELLIOTT, House Governor.

Royal Eye Hospital Medical School,

St. George's-circus, S.E.1.
(Underground: Lambeth North.)

A series of Theatre demonstrations of major OPHTHALMIC SURGERY, illustrated by ward rounds and films, will be given each Tuesday during June, commencing June 6th at 4 P.M.

These demonstrations are suitable for Post-graduates and Candidates for Part II D.O.M.S.

Fee: 1 guinea per demonstration.

Lecturer: Mr. B. W. RYCROFT, M.D., D.O.M.S., F.R.C.S.

For further particulars apply to the Dean.

Borough of Finchley.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications are invited for the appointment of Assistant Medical Officer of Health (Male) from registered Medical Practitioners who hold a Diploma in Public Health or similar qualification.

The appointment is a whole-time one and the duties will include work in connexion with all branches of the Public Health and School Medical Services, and the Casualty Services of the Air-Raid Precautions Scheme.

The salary scale will be £500 to £700 per annum, rising, subject to satisfactory service, by annual increments of £25, and the commencing salary, which will not exceed £600 per annum, will be fixed in relation to the qualifications and experience of the successful candidate.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination by the Council's Medical Officer of Health.

Applications, on forms to be obtained from the Medical Officer of Health, 308, Regents Park-road, N.3 accompanied by copies of three testimonials must reach the undersigned by not later than Tuesday, the 13th June, 1939.

R. M. FRANKLIN, Town Clerk.

Municipal Offices, Finchley, N.3, 23rd May, 1939.

The Hospital for Women,

Soho-square, London, W.1.

The Committee of Management propose to appoint Two HONORARY ANÆSTHETISTS, one to attend the Hospital on Tuesday afternoons and one to attend on Friday afternoons.

Applications are invited for these posts from qualified Men and Women, who should send six copies of their application and testimonials to the undersigned not later than Wednesday, 14th June, 1939.

J. P. HEMING, Secretary.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN to the CHILDREN'S DEPARTMENT.

Applications, with copies of three testimonials, should be sent before June 10th to the House Governor, King's College Hospital, Denmark Hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

Guy's Hospital, S.E.1.

Applications are invited for the post of Woman MEDICAL OFFICER for the Department of Venereal Diseases, commencing July 3rd, 1939, to attend on six sessions per week, each of three hours. Salary £350 per annum.

Applications, giving age, qualifications, and details of experience, and accompanied by testimonials, must be sent to the Superintendent, Guy's Hospital, London Bridge, S.E.1, not later than June 5th, 1939.

The Salvation Army,

THE MOTHERS' HOSPITAL,
Lower Clapton-road, Clapton E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER, vacant July 1st, 1939. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Monday, June 5th, 1939.

FRED HAMMOND, Secretary.

Samaritan Free Hospital for Women,

Marylebone-road, N.W.1.

PATHOLOGIST.

Applications are invited for the post of Pathologist (non-resident). This appointment in the first instance will be on a part-time basis. Salary at the rate of £250 per annum.

Applications, with copies of testimonials, should reach the undersigned at the Hospital not later than Saturday (noon), June 3rd, 1939.

G. H. HAWKINS, Secretary.

St. Mark's Hospital for Cancer, Fistula,

AND OTHER DISEASES OF THE RECTUM,
City-road, London, E.C.1.

Applications, are invited for the post of HOUSE SURGEON (Male). Salary £120 per annum, with board, residence, and laundry. The appointment is for a minimum of six months. Duties to commence on 1st July, 1939.

Applications, with copies of testimonials, must reach the Secretary (from whom further particulars may be obtained) not later than Monday, 12th June, 1939.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF PATHOLOGY tenable at ST. THOMAS'S HOSPITAL MEDICAL SCHOOL. Salary £1200 a year.

Applications (twelve copies) must be received not later than first post on 15th June, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

Royal Eye Hospital Medical School,

St. George's-circus, S.E.1.
(Underground: Lambeth North.)

A course in OPHTHALMIC PATHOLOGY and BACTERIOLOGY suitable for Part II D.O.M.S. Candidates and Post-graduates will be held on each Tuesday during June, commencing June 6th at 3 P.M.

A set of slides will be provided for each student.

Fee: 1 guinea per session.

Lecturers: Mr. T. M. TYRRELL, F.R.C.S., and Dr. J. O. OLIVER, M.B., B.S., M.R.C.S.

For further particulars apply to the Dean.

County of Kent.

URBAN DISTRICT OF SITTINGBOURNE AND MILTON

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from fully qualified Medical Practitioners with experience in Public Health duties and holding a diploma in Sanitary Science, Public Health or State Medicine for the post of Medical Officer of Health of the Sittingbourne and Milton Urban District. Population 23,000 (estimated). Area, 4935 acres.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health under relevant Acts and Orders, and to carry out such other appropriate duties as the Council may with the consent of the Ministry of Health (where necessary) from time to time direct. It is intended if circumstances permit that he should also be appointed by the appropriate authorities to act as:—

(a) Assistant County Medical Officer of Health under the direction of the County Medical Officer and will be required to perform such County Council duties as he may from time to time prescribe. These duties will, in the first place, be in connexion with the School Medical Services in the Urban District.

(b) Medical Officer for the administrative control of the Infectious Diseases Hospital at Keycol Hill, near Sittingbourne, belonging to the Sittingbourne and Milton Joint Hospital Board.

The appointment of Medical Officer of Health is subject to the provisions of the Local Government Act, 1933, and the Sanitary Officers' (Outside London) Regulations, 1935. The appointment of Assistant County Medical Officer is subject to the approval of the Board of Education.

The person appointed must reside within the Urban District, must not engage in private practice, and must devote his whole time to the duties of the before-mentioned posts.

The posts are superannuable and the successful candidate will be required to pass a medical examination.

The total salary in respect of all the above-mentioned appointments will be at the rate of £800 per annum, increasing by £50 per annum to a maximum of £900, with necessary travelling expenses in addition.

A list of the duties and form of application will be supplied on application to the undersigned.

Canvassing, either directly or indirectly, will be a disqualification.

Applications on the prescribed form accompanied by not more than three recent testimonials and endorsed "Appointment of Medical Officer of Health" must be delivered to the undersigned on or before the 8th day of June, 1939.

G. H. POTTER, Clerk to the Council.

Town Hall, Sittingbourne, 22nd May, 1939.

King Edward VII Hospital, Windsor.

A whole-time PATHOLOGIST required. Salary £500 per annum, with scope for private practice. The terms of the appointment can be obtained from the Secretary.

Royal Berkshire Hospital, Reading.

(338 Beds.)

Applications are invited for the following resident appointments which fall vacant on August 1st, 1939:—

One HOUSE SURGEON (Male).

One HOUSE SURGEON to the SPECIAL DEPARTMENTS (Eye, Ear, Nose and Throat) (Male).

One CASUALTY OFFICER (Male).

The appointments are for six months, and candidates must be fully qualified and registered. Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned.

H. E. RYAN, Secretary and House Governor.

The Beckett Hospital and Dispensary,

BARNSLEY.
(157 Beds. 4 Residents.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male), vacant 23rd June. GENERAL SURGICAL, EAR, NOSE AND THROAT, and GYNÆCOLOGICAL DEPARTMENTS. Candidates must be fully qualified and registered.

Salary £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, accompanied by testimonials, should be addressed to the undersigned by the 6th June.

ARTHUR L. BOURNE, Secretary-Superintendent.

23rd May, 1939.

Cornwall County Council.

DEPUTY COUNTY MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners qualified in Public Health, Sanitary Science or State Medicine for the appointment of a Deputy County Medical Officer at an inclusive salary of £720 a year, with travelling allowance on the County Scale.

The officer appointed will work under the supervision of the County Medical Officer, and his duties will be to assist him in connexion with all matters arising in the Public Health Department. Preference will be given to applicants who have attended a Post-graduate Course in mental deficiency, or have experience in the certification of mental defectives.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, should reach the County Medical Officer, County Hall, Truro, by Tuesday, 13th June.

T. A. H. SHEERS, Clerk of the County Council.

County Hall, Truro, 19th May, 1939.

The Kidderminster and District General

HOSPITAL. (145 Beds.)

Applications are invited for the following:—

SENIOR HOUSE SURGEON (Male). Salary £150 per annum. To start duties on 10th July.

JUNIOR HOUSE SURGEON (Male). Salary £100 per annum. To start duties on 16th August.

Residence, board, and laundry are provided in each case.

Each appointment will be for six months.

Applications, with not more than three testimonials, should be sent immediately to the undersigned.

C. M. SMITH, House Governor and Secretary.

City Hospital, Chester.

JUNIOR RESIDENT MEDICAL OFFICER required for the above hospital, which is a general hospital of 200 Beds with full visiting staff. Salary will be £150 per annum, plus full residential emoluments. The appointment will be for six months only and will be terminable at any time by one month's notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be sent to the Medical Officer of Health, Town Hall, Chester, by Wednesday, 14th June, 1939.

G. BURKINSHAW, Town Clerk.

Harlow Wood Orthopædic Hospital,

Near MANSFIELD, NOTTS.
(155 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male). Salary is at the rate of £200 per annum, with board, residence, and laundry. The duties may include attendance at the associated Hospitals and Out-patient Clinics, and commence on 1st July, 1939. The appointment will be for six months and may be renewed for a further six months.

Applications, stating age and experience, with copies of testimonials, should be received by the Secretary not later than 5th June, 1939.

Berkshire Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Men for the above-mentioned appointment.

The person appointed will be required to carry out, under the direction of the County and School Medical Officer, the medical inspection of children in public elementary and secondary schools and such other work as may, from time to time, be prescribed. He will be required to devote his whole time to the duties.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to undergo a medical examination and to produce satisfactory evidence as to age.

The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned, and should be returned by first post on 17th June, 1939, together with copies of three testimonials.

W. F. HERBERT, Education Secretary.

Shire Hall, Reading, 23rd May, 1939.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEONS (GENERAL SURGERY) TWO
HOUSE PHYSICIAN.

Applications are invited for the above resident posts which become vacant on 1st July next.

The Hospital contains 300 Beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointments are for six months. Salary at the rate of £100 per annum. Board, furnished room, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 15th May, 1939.

East Fortune Sanatorium,
EAST LOTHIAN. (211 Beds.)

JUNIOR ASSISTANT MEDICAL OFFICER required to assume duty at once. Salary at the rate of £180 per annum, with usual emoluments. No previous experience of Tuberculosis is required. Appointment in the first instance for six months.

Applications should contain full particulars and, with copies of three recent testimonials, should be sent to the undersigned on or before 15th June.

G. J. McGREGOR, Secretary of the Board.
County Rooms, George IV Bridge, Edinburgh.

Royal Hampshire County Hospital,
WINCHESTER. (187 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited from fully qualified men for the above post, to take up duties on the 23rd June next. Six months' appointment. Salary £200 per annum, with board, residence, and laundry.

Candidates, who must be of British nationality, to make application as soon as possible to the undersigned, enclosing copies of three testimonials.

H. EWART MITCHELL, Superintendent and Secretary.
20th May, 1939.

Royal Hampshire County Hospital,
WINCHESTER.
(187 Beds. 5 Resident Officers.)
Hospital recognised by the Royal College of Surgeons of England.

HOUSE PHYSICIAN.

Applications are invited from fully qualified Men for the above post. Six months' appointment. Salary £100 per annum, with board, residence, and laundry.

Candidates, who must be of British Nationality, to make application to the undersigned, enclosing copies of three testimonials.

H. EWART MITCHELL, Superintendent and Secretary.
16th May, 1939.

The Robert Jones and Agnes Hunt
ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 240. Children 120.)

HOUSE SURGEON (Male) required to commence July 1st. Appointment for six months, with possibility of extension. Salary at the rate of £200 per annum, with board, residence, and laundry. Two weeks' holiday for each six months' service.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, to be addressed to the Secretary-Superintendent, and to reach him not later than June 10th, 1939.

County Borough of Swansea.

ASSISTANT MEDICAL OFFICER. Male or Female.

Applications are invited from registered Medical Practitioners under forty years of age for the above-named post.

Resident Hospital, Mental Deficiency, School Medical Service and Maternity and Child Welfare experience is desirable.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.

Salary £500, rising by annual increments of £25 to £700.

Application forms may be obtained from the Medical Officer of Health, Public Health Department, Guildhall, Swansea, to whom they should be returned not later than June 19th, 1939.

H. L. LANG-COATH, Town Clerk.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT. (410 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the AURAL AND OPHTHALMIC DEPARTMENTS.

Salary at the rate of £150 per annum, with board, residence, and laundry. The appointment will be for six months, renewable.

Applications, stating age and experience, with copies of two recent testimonials to be sent to the undersigned immediately.

THORNBURROW GIBSON, Secretary and House Governor.
23rd May, 1939.

Royal Buckinghamshire Hospital,
AYLESBURY. (115 Beds.)

Applications are invited for the post of
SECOND RESIDENT MEDICAL OFFICER (Male),
for six months beginning 1st July, 1939.

Salary £150 per annum, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London Consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Tuesday, 20th June, 1939.

Applications must reach the undersigned by Monday, 12th June, 1939.

F. G. DAWES, Secretary.

County Borough of Barrow-in-Furness.

AMENDED ADVERTISEMENT.

JOINT APPOINTMENT OF OBSTETRIC OFFICER FOR THE COUNTY BOROUGH OF BARROW-IN-FURNESS AND THE LANCASHIRE COUNTY COUNCIL.

Applications are invited from registered Medical Practitioners possessing a higher degree in obstetrics and gynæcology, for the post of Joint Obstetric Officer for the County Borough of Barrow-in-Furness and part of the Administrative County of Lancaster.

The salary will be at the rate of £1000 per annum, with travelling expenses for the County Area in accordance with the County Council's Scale.

The gentleman appointed will be allowed to engage in private consultant practice, subject to certain conditions, and will be required to reside within ten miles of the Borough of Barrow-in-Furness.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidate satisfactorily passing a medical examination, and to three months' notice on either side.

Forms of application, particulars of duties, and terms of appointment, may be obtained from the Medical Officer of Health, Town Hall, Barrow-in-Furness, and applications endorsed "Obstetrical Officer," with copies of not more than three recent testimonials, must be received by the undersigned not later than Saturday, 3rd June, 1939.

Canvassing, directly or indirectly, is prohibited and will disqualify.

W. LAWRENCE ALLEN, Town Clerk.
Town Hall, Barrow-in-Furness.

Royal Manchester Children's Hospital,
PENDLEBURY, near MANCHESTER.
(232 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer. Salary £150 per annum. The appointment is for a period of six months, commencing 1st July, 1939. Candidates must be unmarried and duly registered. Previous Hospital experience essential.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Wednesday, 31st May, 1939. Canvassing, directly or indirectly, may disqualify.

By order.
H. HEARDMAN, Secretary.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from July 1st, 1939. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, May 31st, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

Doncaster Royal Infirmary.
(185 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT and OPHTHALMIC DEPARTMENTS and RESIDENT ANÆSTHETIST.

The appointment is for six months.

Salary at the rate of £150 per annum, with the usual emoluments.

Applications, accompanied by copies of three recent testimonials, should be forwarded to the undersigned immediately.

R. LANCASTER, Secretary-Superintendent.

Ancoats Hospital, Manchester, 4.

ASSISTANT MEDICAL OFFICER (Male) required for the Venereal Department Clinics—Syphilis section. Attendance on Wednesday morning 11.30 to 1 o'clock, and Wednesday and Saturday evenings 5.30 to 7 P.M. Salary £1 1s. per attendance.

Applications, stating age, qualifications, and experience, to be forwarded to the undersigned on or before 3rd June, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

Derbyshire Royal Infirmary, Derby.
(General Hospital. 362 Beds.)

Applications are invited for the post of HOUSE SURGEON for CASUALTY DEPARTMENT (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.
16th May, 1939.

The Hospital for Sick Children,
NEWCASTLE-UPON-TYNE.

The Board of Management has declared vacancies for the following appointments:—

(a) One HONORARY PHYSICIAN.
(b) One HONORARY SURGEON.
(c) Two HONORARY ASSISTANT PHYSICIANS.
(d) Two HONORARY ASSISTANT SURGEONS.

Applications, stating age and qualifications, are invited for the above appointments and should be sent to the Secretary, Mr. NEIL BRODIE, 18, City-road, Newcastle-upon-Tyne, 1, not later than 31st May, 1939, accompanied with copies of three recent testimonials.

Extract from Rules

"Every candidate for the office of Physician or Assistant Physician shall be a registered Medical Practitioner and a Graduate in Medicine of some University recognised by the General Council of Medical Education and Registration of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians of the United Kingdom. Every candidate for the office of Surgeon or Assistant Surgeon shall be a registered Medical Practitioner and a Graduate in Surgery of some University recognised by the said General Council, or a Fellow of one of the Royal Colleges of Surgeons of the United Kingdom. Candidates for the posts of Physicians, Surgeons, Assistant Physicians and Assistant Surgeons shall be in practice as Consultants and not as General Practitioners."

"Canvassing directly or indirectly for any office shall be deemed a disqualification."

County Antrim Mental Hospital,
ANTRIM, NORTHERN IRELAND.

APPOINTMENT OF RESIDENT MEDICAL SUPERINTENDENT.

The Committee of Management of above Hospital invite applications for the position of Resident Medical Superintendent. Salary £900 per annum, rising £25 yearly to £1000, with free house, fuel and light, washing, and garden, valued at £150 per annum.

Two Assistant Medical Officers reside in the Hospital. At present there are 675 patients, including a Female Private Patients Block.

Applicants must have an extensive experience of the treatment of mental illness. A Degree or Diploma in Psychological Medicine essential.

Applicants must be at least thirty-five years of age, and must satisfy the Committee as to their medical fitness.

The gentleman appointed will be required by the Committee to devote all his time to his professional duties. The appointment will be subject to the provisions of the Asylums Officers Superannuation Act, 1909.

Applications to be made on forms, to be had from the Clerk of the Hospital, to be returned accompanied by copies of recent testimonials, and addressed to the Committee of Management endorsed "Resident Medical Superintendent" and received by the Clerk of the Hospital not later than Saturday, 3rd June, next.

Canvassing, directly or indirectly, prohibited.

By Order of the Committee of Management.
J. WALKER, Clerk.

County of Dorset.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER.

The Dorset County Council invite applications from registered Medical Practitioners with at least three years' experience since qualification, not exceeding forty years of age, for the appointment of Male Assistant County Medical Officer.

Salary commencing at £500 per annum rising (subject to satisfactory service) to £700 by annual increments of £25, together with travelling and out-of-pocket expenses according to the County Scale.

Experience in Refractions and the treatment of Venereal Disease, and the possession of the Diploma in Public Health, will be considered important additional qualifications.

The candidate will be required to reside at Sherborne (or such other place in the County as may be decided upon) to devote his whole time to the service of the County; to act under the direction of the County Medical Officer and perform such duties in connexion with the County Council's Health Services as may be allotted to him.

The post is designated for superannuation purposes, and the successful candidate will be required to pass a medical examination.

Applications on a prescribed form, which may be obtained from me on receipt of a stamped addressed foolscap envelope, must be forwarded so as to be received not later than Monday, the 12th June, 1939.

Canvassing in any form will be a disqualification.

C. P. BRUTTON, Clerk of the County Council.
County Offices, Dorchester, 15th May, 1939.

Manchester Hospital for Consumption
AND DISEASES OF THE THROAT AND CHEST.

Wanted, an ASSISTANT MEDICAL OFFICER (Male) for the CROSSLEY SANATORIUM, Delamere Forest, Cheshire (110 Beds). Salary £200 per annum, with board, apartments, and laundry. Candidates must be registered. The appointment offers an opportunity for gaining experience in modern methods of treating Pulmonary Tuberculosis.

Applications, stating age, with copies of testimonials, to be sent not later than June 5th to W. HUNT, Secretary, 45, Hardman-street, Manchester, 3.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

SURGICAL FIRST ASSISTANTS.

Applications are invited for the posts of First Assistants to two Surgical Units.

The appointments are whole-time and limited to Hospital practice. They are non-resident and are tenable for one year. Successful candidates will be eligible for re-election for a further period of one year.

Applicants must be Fellows of the Royal College of Surgeons.

The salary attached to each post is £300 per annum with emoluments.

Applications, giving full particulars as to age and previous experience, &c., with copies only of recent testimonials, to be forwarded to the undersigned not later than Wednesday, 31st May, 1939.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.
The Royal Infirmary, Sheffield, 6, 2nd May, 1939.

County Borough of Halifax.

THE HALIFAX GENERAL HOSPITAL.
(405 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER. (Male.)

Applications are invited from duly qualified registered Medical Practitioners for the above appointment.

Salary £250 per annum, together with board, residence, and laundry. The appointment will be for a term not exceeding twelve months and is not renewable.

Forms of application and conditions of appointment can be obtained from the Medical Officer of Health, Powell-street, Halifax.

Completed applications, together with copies of not more than three recent testimonials, endorsed "Junior Resident Medical Officer" should be forwarded to the undersigned as early as possible.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.
Town Hall, Halifax, 16th May, 1939.

City of Portsmouth.

SAINT MARY'S HOSPITAL. (1050 Beds.)

Applications are invited for the appointment of a JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applicants must be single gentlemen, duly qualified and registered, not exceeding thirty years and must have had at least one year's experience of hospital work. Experience in anæsthetics will be an additional qualification.

The appointment is limited to a term of one year and the salary will be £250 per annum, with residential emoluments valued at £125 per annum. The appointment includes service at any institution belonging to the City Council and will be subject to termination by one month's notice on either side. A Resident Medical Superintendent is in attendance.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Wednesday, 7th June, 1939.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.
The Guildhall, Portsmouth, 12th May, 1939.

The University of Sheffield.

The Council is about to appoint an ASSISTANT LECTURER in PHARMACOLOGY. Salary £350 per annum.

Applications should be sent to the undersigned (from whom further particulars may be obtained) not later than June 5th.

W. M. GIBBONS, Registrar.

The University of Sheffield.

The Council is about to appoint a PROFESSOR of BACTERIOLOGY. Salary £1000 per annum.

Applications should be sent to the undersigned (from whom further particulars may be obtained) not later than June 5th.

W. M. GIBBONS, Registrar.

County Borough of West Bromwich.

HALLAM HOSPITAL. (472 Beds.)

HOUSE PHYSICIAN.

Applications are invited from duly qualified Male Registered Practitioners for the above-mentioned post.

The appointment is for six months, with eligibility for a further six months. Either party may give six weeks' notice terminating the appointment. There is a visiting staff of eight Physicians and Surgeons, one Resident Surgical Officer and four Resdent Medical Officers.

Salary £200 per annum, and board-residence. All fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be received not later than by first post on Wednesday, 31st May, 1939.

W. S. WALTON, Medical Officer of Health,
Health Department, West Bromwich.
17th May, 1939.

Huddersfield Royal Infirmary.
(321 Beds.)

Two Male HOUSE SURGEONS required to commence duty on 6th July and 1st August, respectively.

Salary £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal at the discretion of the Board of Management.

The Hospital is officially recognised for the surgical practice required of non-members before admission to the Final Fellowship Examination of one of the Royal Colleges of Surgeons of England.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary.
(321 Beds.)

Male HOUSE SURGEON required to be attached to the ABNORMAL MATERNITY DEPARTMENT. Duties, which include the administration of anæsthetics, to commence on 1st August, 1939. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period, at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. Firth Auxiliary, Norton.

Applications are invited from registered Medical Practitioners for the post of RESIDENT MEDICAL OFFICER.

The appointment will be for six months, commencing 1st July, 1939, subject to renewal for a further six months, with salary at the rate of £150 per annum, plus board, residence, and laundry.

Previous Obstetrical experience is desirable.

The Firth Auxiliary Hospital contains forty-seven beds, of which twenty-three are set apart for the treatment of Puerperal Sepsis, the remainder being for Antenatal and Gynæcological cases.

Applications should be lodged with the undersigned, addressed to the Jessop Hospital for Women, Sheffield, immediately.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)

The Board of Management invite applications for the post of SENIOR RESIDENT OFFICER (Male), unmarried.

The appointment is for six months, in the first instance, from 1st July, 1939.

Salary £150 per annum, plus board, residence, and laundry.

Previous resident experience essential.

The duties include charge of the Maternity Department, thirty-six Beds, and general supervision of the Gynæcological Department.

Applications, stating age and experience, with copies of recent testimonials, should be forwarded immediately to the undersigned.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)

The Board of Management invite applications for posts of HOUSE SURGEONS (Male), unmarried, for a period of six months, commencing 1st July, 1939.

Salary £100 per annum, together with board, residence, and laundry.

Applications, stating age, together with copies of testimonials should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)
GYNÆCOLOGICAL AND MATERNITY DEPARTMENTS.

The Board of Management invite applications for the post of REGISTRAR and OBSTETRICAL TUTOR (full-time). The duties include Antenatal work and teaching of students. Preference may be given to candidates with F.R.C.S. (Eng.) or (Ed.) and M.R.C.O.G.

Salary £250 per annum, with board, lodging, telephone, and certain other extras. The appointment will be for one year subject to reappointment for a second year, and will be terminable by three months' notice on either side at any time.

Applications, with copies of recent testimonials, should be addressed to the undersigned as soon as possible.

DAVID OSWALD, Superintendent and Secretary.

University of Oxford.

HORATIO SYMONDS STUDENTSHIP IN SURGERY.

Applications are invited, before 17th June, 1939, for the Horatio Symonds Studentship in Surgery. Value about £80 a year. Tenable for one year and may be renewed for a further period of one year. Candidates must be male graduates of the University of Oxford who intend to reside in the University and to undertake post-graduate study in the science and art of Surgery.

Applications (three copies) giving past records and programmes of work should be sent to the Registrar, University Registry, Oxford, from whom further particulars can be obtained.

County Borough of Warrington.

RESIDENT MEDICAL OFFICER.

Applications are invited from fully qualified Medical Practitioners (Male, single) for the position of Medical Officer-in-Charge at the Borough General Hospital.

The appointed candidate will work under the direction of the Medical Officer of Health.

The successful candidate will be reponsible for surgical (general and emergency), medical and midwifery cases. He will also take charge of the medical work in the adjoining Public Assistance Institution—i.e., mental and chronic infirm wards, examination of casuals, &c.

Preference will be given to candidates who have the F.R.C.S. and who have held previous Hospital appointments: surgical experience is essential.

The Hospital consists of 340 Beds. Alterations and extensions, which include new wards, modern operating theatres, are about to be completed.

There are two Resident Medical Officers who will work under the appointed candidate.

The appointment will be terminable by three months' notice on either side.

Salary £900 per annum, rising by biennial increments of £50 to £1100 per annum, this salary being inclusive of emoluments (board, residence, and laundry valued at £150 per annum).

All fees and emoluments of every kind whatsoever must be paid to the Corporation.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and is subject to the successful candidate passing a satisfactory medical examination.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the Medical Officer of Health, Health Department, Sankey-street, Warrington, so as to reach me not later than Friday, 9th June, 1939.

STUART F. ALLISON, M.B., Ch.B., D.P.H.
Medical Officer of Health and
Medical Superintendent of Corporation Hospitals.
Health Department, Warrington, May, 1939.

Royal Halifax Infirmary.
Hospital recognised by the Royal College of Surgeons (England).

Wanted, a CASUALTY OFFICER, also in charge of Fracture Clinic (Male, unmarried). Candidates must be duly qualified and registered. The appointment will be for a period ending 31st October, 1939, followed by promotion to Second House Surgeon if suitable. Salary, including all services required in connexion with Paying Patients' Ward, £150 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer, House Physician, two House Surgeons, and Casualty Officer. The Hospital contains Maternity, and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned, to whom applications, stating age, and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary.

22nd May, 1939.

Birmingham Maternity Hospital.

Applications are invited for the post of RESIDENT MEDICAL OFFICER AND REGISTRAR, to commence duties on 1st August, 1939. Applicants must have had previous experience in Obstetrics and Gynæcology. Salary £200 per annum.

Applications and copies of testimonials to be sent not later than 17th June to MR. HUGH C. ASTON, 45, Newhall-street, Birmingham 3.

Birmingham and Midland Hospital for WOMEN.

HOUSE SURGEON (Man or Woman) wanted for six months from 1st July, 1939. Salary to be at the rate of £100 per annum.

Applications, with full particulars and copies of testimonials, to be sent not later than 10th June to HUGH C. ASTON, 45, Newhall-street, Birmingham 3.

University of Bristol.

LECTURESHIP IN PATHOLOGY.

The University invites applications for a Lectureship in Pathology. Salary £400 to £500 per annum according to qualifications and experience.

Applications should reach the undersigned, from whom further particulars may be obtained, on or before June 21st, 1939.

WINIFRED SHAFLAND, Secretary and Registrar.

York County Hospital.
(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M., on Monday, 5th June, 1939.

J. R. MACKRILL, Secretary.

City and County of Canterbury.

MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

The County Borough Council invite applications from duly registered Medical Practitioners of not more than thirty-five years of age, holding a Diploma in Public Health and possessing Municipal or Local Government experience, for the appointment of Medical Officer of Health and School Medical Officer.

The candidate appointed will be required to devote his whole time to the service of the Council and must reside within the city.

The initial inclusive salary will be £800 per annum, rising by annual increments of £25 to a maximum of £900 per annum. An allowance of £40 per annum will be made in respect of the use of a car.

The appointment will be made subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The Council will provide offices and staff.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, must be sent (in envelopes endorsed "Medical Officer") so as to reach me not later than the 10th June, 1939.

Thirty copies of the application and testimonials should also be forwarded for the use of the Members of the Council.

Canvassing in any form is strictly prohibited and will disqualify.

G. W. MARKS, Town Clerk.

Town Clerk's Office, Municipal Buildings, Canterbury.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

Applications are invited for the undermentioned posts:—

OPHTHALMIC DEPARTMENT.

(1) CLINICAL ASSISTANT (non-Resident).
(2) HOUSE SURGEON (Resident).

(1) Is tenable for one year subject to two months' notice and to re-election. Salary £300 per annum.

(2) The salary attached to the Resident post varies from £80 to £120 per annum, according to experience.

The successful applicants will be expected to take up duties on 1st June.

The Ophthalmic Department contains 69 beds and a large Out-patient Department.

Applications, with copies of recent testimonials, giving full qualifications and previous hospital experience to be forwarded forthwith to the undersigned.

H. KINGSLEY PEARCE, General Supt. and Secretary.

The Royal Infirmary, Sheffield, 6, 22nd May, 1939.

The University of Manchester and MANCHESTER ROYAL INFIRMARY.

DEPARTMENT OF CLINICAL INVESTIGATIONS AND RESEARCH.

ASSISTANT DIRECTOR.

Applications are invited for the post of Assistant Director in the Department of Clinical Investigations and Research at the Manchester Royal Infirmary.

The person appointed will be required to assist the Director and deputise for him in his absence and to assist in the Department Clinics. These duties will occupy about half the Assistant Director's time. In the other half of his time he will be expected to carry out research.

The appointment in the first place will be for one year renewable annually for three years.

Commencing salary, £400 per annum.

Candidates must have a registrable medical qualification.

Applications, with the names of two referees, to be sent to the Registrar, The University, Manchester, 13, on or before June 9th, 1939.

Manchester Royal Infirmary.

CHIEF ASSISTANT TO A SURGICAL UNIT
(Non-resident).

The Board of Management invite applications for the above appointment.

Candidates should be Fellows of the Royal College of Surgeons of England.

The duties require attendance at the Infirmary on seven half days per week. The appointment is for one year, renewable for a further period, subject to the provisions of the by-laws as to notice. Salary £250 per annum.

Further information may be obtained from the undersigned, to whom applicants must send fifteen copies of their application and fifteen copies of testimonials by Thursday, 15th June, 1939.

By order.

F. J. CABLE, General Superintendent and Secretary.

19th May, 1939.

Worcester Royal Infirmary.

Applications are invited for the post of CASUALTY OFFICER.

Salary at the rate of £140 per annum, including board, residence, and laundry.

Applications, stating full particulars as to age, whether married or single, qualifications, &c., and accompanied by copies of three recent testimonials, should be sent to the undersigned by the 3rd June, 1939.

H. J. CLOUT, Secretary.

Assam Medical Research Society, SHILLONG, ASSAM, INDIA.

Applications are invited for the post of a RESEARCH OFFICER with special reference to Malaria.

Candidates should state their qualifications and previous experience. Experience with labour forces in rural conditions in India will be considered an additional recommendation.

Salary Rs. 1000/- per mensem, plus travelling allowances as a first-grade officer under the Assam Subsidiary Rules. Leave will be granted in accordance with the Fundamental Rules and Assam Subsidiary Rules.

The appointment will be for eight months in the first instance, renewable annually, provided the post is continued and subject to satisfactory service.

The appointment may be terminated by one month's notice on either side. Applications to be lodged by the 30th June, 1939, with the Honorary Secretary, Assam Medical Research Society, Pasteur Institute, Shillong, from whom further particulars may be obtained.

Berkshire County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of whole-time Assistant Medical Officer (Female).

The duties will be in connexion with the Maternity and Child Welfare and School Medical Services. The officer will also be required to undertake such other duties as the County and School Medical Officer may, from time to time, assign.

Candidates must, subsequent to qualification, have had at least three years' experience in the practice of their profession, and special experience of practical midwifery and antenatal work. The Diploma in Public Health will be considered an additional recommendation.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination and to produce her birth certificate.

The appointment will be subject to three calendar months' notice on either side.

Forms of applications may be obtained from the undersigned, and should be returned by first post on 17th June, 1939, together with copies of three testimonials.

Canvassing members of the Council will disqualify.

H. J. C. NEOBARD, Clerk of the County Council.

Shire Hall, Reading, 22nd May, 1939.

City of Leeds.

MENTAL DEFICIENCY ACTS, 1913–1938.

APPOINTMENT OF MEDICAL SUPERINTENDENT OF THE MEANWOOD PARK COLONY, LEEDS.

The Leeds Mental Health Services Committee invite applications from qualified Medical Practitioners not over fifty years of age for the position of Medical Superintendent of the Meanwood Park Colony. The present accommodation is for 460 mental defectives and building extensions are now in progress which will increase the accommodation to approximately 870 patients of both sexes.

Applicants, who must have held Resident Hospital appointments, should possess a British Diploma in Psychological Medicine, and have had experience in the organisation and administration of a large Colony.

The commencing salary for the post is at the rate of £800 per annum, with a maximum salary of £950 per annum, and house, coal, and light in addition valued at £150 per annum. The salary and the value of the emoluments are subject to the usual deductions for superannuation purposes under the Asylum and Certified Institutions (Officers Pension) Act.

Applications on forms to be obtained from the undersigned with copies of three recent testimonials to be forwarded not later than the 26th June, 1939.

Canvassing in any form, either directly or indirectly, will be a disqualification.

S. WORMALD, Executive Officer.

Mental Health Services Committee,
Offices: 27, Blundell-street, Leeds, 1, 20th May, 1939.

North Devon Infirmary, Barnstaple.

70 Beds (including Maternity Ward).

Wanted, June 20th, duly qualified Sole RESIDENT MEDICAL OFFICER. Salary £150 per annum, with board, apartments, and laundry. Appointment to be for not less than six months.

Applications, stating age, qualifications, with copies of testimonials, to be sent to the Secretary, by Thursday, June 8th.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of SURGICAL REGISTRAR, who will have charge of beds, and who will be responsible for the supervision of the surgical notes of the hospital. The appointment will be for one year in the first instance. The duties will commence as soon as possible after election. The appointment will be a whole-time one, with salary at the rate of £400 per annum, non-resident. Candidates must be Fellows of the Royal College of Surgeons and preferably have held a senior surgical post in a teaching hospital.

Ten copies of applications and testimonials must be sent to the undersigned not later than Saturday, June 10th, 1939.

A. G. E. SANCTUARY, Administrator.

County Borough of Oldham.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the position of Deputy Medical Officer of Health and Assistant Tuberculosis Officer. Applicants must be registered Medical Practitioners and hold a Diploma in Public Health or similar qualification, and also have previous experience in General Medicine, Surgery, and Public Health Work. Special experience in Tuberculosis is essential. The age limit for new entrants to the Corporation service is forty-five.

The successful candidate will also be appointed to the staff of the Education Committee as Deputy School Medical Officer of Health, and will undertake duties in the School Medical Department. He should also have experience of work under the Mental Deficiency Acts and in connexion with Air-Raid Precautions Schemes.

The person appointed will be required to reside in the Borough and to devote the whole of his time to the duties of the office and to perform such duties in connexion with the Public Health and Medical Services of the Council as shall from time to time be determined.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a satisfactory medical examination.

The salary will be an inclusive one and cover all duties, and will commence at £750 per annum and rise by annual increments of £25 to £850 per annum. The person appointed will be required to account for and hand over to the Council all fees and other payments received by him.

The appointment may be determined by three months' notice on either side.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Oldham, and must be returned, to him, accompanied by copies of three recent testimonials, on or before the 16th June, 1939.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 22nd May, 1939.

Kent and Sussex Hospital,

TUNBRIDGE WELLS. (210 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Salary £250 per annum, with board, residence, and laundry, in the Hospital.

The Hospital includes the following departments: Medical, Surgical, Ear, Nose and Throat, Ophthalmic, Orthopædic, Gynæcological, Radium, X-Ray and Electro-therapeutic, Massage, Pathological, Venereal Disease, &c.

In addition to the Resident Surgical Officer the Resident Staff includes:—

1 Senior House Surgeon.
1 Casualty Officer and Junior House Surgeon.
1 House Physician.
1 Ear, Nose, and Throat and Ophthalmic House Surgeon.

Applications, stating qualifications and experience, together with certificate of registration and copies of not more than three recent testimonials, should be sent to the undersigned not later than 5th June, 1939. Duties to commence 21st June, 1939. The appointment will be for twelve months.

TOM B. HARRISON, Superintendent-Secretary.

23rd May, 1939.

County Council of the West Riding

OF YORKSHIRE.

SCALEBOR PARK MENTAL HOSPITAL.

The Visiting Committee of the Scalebor Park Mental Hospital invite applications for the appointment of an ASSISTANT MEDICAL OFFICER at the Scalebor Park Mental Hospital for private patients at a salary of £400 per annum, rising by annual increments of £25 to £500 per annum, with board and residence at the Hospital with an additional £50 for the D.P.M. or M.D. in Psychological Medicine (London).

Further particulars and form of application may be had from the undersigned, by whom all applications, together with copies of not more than three recent testimonials, must be received not later than the 12th June, 1939.

J. CHARLES MCGRATH, Clerk to the Visiting Committee.

County Hall, Wakefield, May, 1939.

City of Nottingham Education

COMMITTEE

Applications are invited from Licentiates in Dental Surgery for appointment to the post of ASSISTANT SCHOOL DENTIST.

Scale of salary £450 per annum, rising by annual increments of £25 to £500 per annum.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937.

Applications, which should be made on the special forms obtainable from the undersigned, must be sent in not later than 3rd June, 1939.

Canvassing in any form will disqualify.

F. STEPHENSON, Director of Education,
c/o School Medical Service, 28, Chaucer-street, Nottingham.

Middlesex County Council.

REDHILL COUNTY HOSPITAL, EDGWARE, MDX.
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PHYSICIAN (Grade II). Man or Woman of high qualifications and professional attainments devoting time chiefly to practice of clinical medicine. Whole-time duties, under supervision of Medical Superintendent and Senior Physician, may include teaching nurses and students, &c. Required to reside near hospital. Salary £650–£50–£1000 per annum (inclusive). Any fees received to be paid to Council. Pensionable appointment, subject to medical examination and three months' notice.

VISITING ELECTRO-THERAPIST. Registered Medical Practitioner with D.M.R.E., engaged chiefly in practice of this specialty. One session weekly at 3 guineas each. Appointment subject to one month's notice.

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Resident ASSISTANT MEDICAL OFFICER. Registered Medical Practitioner having held resident surgical appointments in general hospitals, with experience in operative surgery. Salary £400–£25–£475 per annum, with board, lodging, and laundry.*

WEST MIDDLESEX COUNTY HOSPITAL,
ISLEWORTH, MDX.

Resident ASSISTANT MEDICAL OFFICER (Male). Registered Medical Practitioner having held resident appointments in general hospitals with special experience in children's diseases. Salary £400–£25–£475 per annum, with board, lodging, and laundry.*

NORTH MIDDLESEX COUNTY HOSPITAL,
Silver-street, Edmonton, N.18.

Resident JUNIOR ASSISTANT MEDICAL OFFICERS (2). Registered Medical Practitioners having held resident appointment in general hospital. Whole-time duties (general, medical, and surgical) under Medical Superintendent. Appointment, subject to medical examination and one month's notice, is primarily for six months but may be extended for further six. Preservation of pension rights under certain Acts. Salary £250 per annum, with board, lodging, and laundry.

* Appointment for four years only, is subject to one month's notice. Medical examination in connexion with pensionable staff. Possibility of retention on established staff in special cases at £500 per annum (maximum).

Written applications with copies of not more than three recent testimonials to the undersigned by 3rd June, 1939.

Canvassing direct or indirect disqualifies.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.

Guildhall, Westminster, S.W.1.

Saint Mary's Hospitals, Manchester.

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for twelve months from the 1st August next at a salary at the rate of £100 per annum, with board and residence. Successful candidate will be eligible for the examination for the Diploma in Anæsthetics providing he has also held an appointment as House Physician or Surgeon for six months in a recognised general hospital.

Applications, with copies of three testimonials, to reach the undersigned not later than June 12th.

A. R. WISE, Superintendent and Secretary.

Manchester and Salford Hospital for

SKIN DISEASES (54 Beds, 18,512 Out-patients per annum).—Two ASSISTANT MEDICAL OFFICERS wanted. Fully qualified and registered. To attend three mornings per week each. Salary at the rate of £150 per annum in each case. The appointments are for twelve months from July 1st. Applications, with copies of three testimonials, to be sent to the undersigned on or before June 3rd. JOHN NALL, Secretary.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th June.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S. England or Edinburgh.

Applications, staging age and qualifications, together with copies of three recent testimonials, to reach the Secretary by 2nd June.

General Hospital, Nottingham.

(389 Beds.)

A HOUSE SURGEON (Male) is required at the above Institution. The appointment is for six months with salary at the rate of £150 a year with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copies of testimonials, to be sent to the undersigned not later than May 31st.

Duties to commence on Wednesday, July 12th.

HENRY M. STANLEY, House Governor and Secretary.

General Hospital, Nottingham.

(389 Beds.)

A RESIDENT ANÆSTHETIST (Male) is required at the above Institution. The appointment is for six months, with salary at the rate of £150 a year, with board, residence, and laundry.

Candidates are desired to send applications, stating age, qualifications, and experience, together with copies of testimonials, to the undersigned.

Duties to commence on or about June 1st, 1939.

HENRY M. STANLEY, House Governor and Secretary.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (564 Beds.)

APPOINTMENT OF RESIDENT ASSISTANT OBSTETRICIAN.

Applications are invited for the appointment of Resident Assistant Obstetrician at the Kingston County Hospital. Candidates must have held resident hospital appointments, and should preferably possess a higher Surgical and/or Midwifery qualification.

The tenure of the appointment is limited to a period of five years, but the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The salary is at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with full residential emoluments valued at £125 per annum (the officer appointed may be required to be non-resident, in which case the value of the emoluments less deductions for meals supplied will be paid in cash).

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so that he may receive them not later than the 9th June, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 26th May, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (564 Beds.)

APPOINTMENT OF RESIDENT ASSISTANT PHYSICIAN.

Applications are invited for the appointment of Resident Assistant Physician at the Kingston County Hospital. Candidates must have held resident hospital appointments, and should preferably possess a Higher Medical qualification.

The tenure of the appointment is limited to a period of five years, but the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The salary is at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with full residential emoluments valued at £125 per annum. (The Officer appointed may be required to be non-resident, in which case the value of the emoluments less deductions for meals supplied will be paid in cash.)

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so that he may receive them not later than the 9th June, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 26th May, 1939.

Essex County Council.

TEMPORARY TUBERCULOSIS OFFICER required on 26th June, 1939, for holiday duties for approximately three months at a fee of £12 per week, inclusive of travelling expenses.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be addressed and delivered to the Clerk of the County Council, County Hall, Chelmsford, not later than 10 A.M. on Monday, 5th June, 1939.

The Duchess of York Hospital for

BABIES, MANCHESTER. (80 Beds.)

Applications are invited for the post of SENIOR RESIDENT MEDICAL OFFICER. Appointment is for six months from 1st July, 1939. Salary at the rate of £125 per annum, with laundry.

Previous Hospital experience essential.

Applications, together with copies of testimonials, to be sent to the Secretary by the 8th June.

LOUISE BAILEY, Secretary.

County Borough of Newport.

ASSISTANT MEDICAL OFFICER OF HEALTH (Female).

Applications are invited for the post of Assistant Medical Officer of Health (Female) at a commencing salary of £500 per annum, rising by annual increments of £25 to a maximum of £700 per annum.

Candidates must be registered Medical Practitioners and in addition possess a diploma in Public Health, and be under forty years of age.

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Applications in the candidate's own handwriting, on special forms to be obtained from this office, must be forwarded to the Medical Officer of Health, Royal Chambers, High-street, Newport, Mon., not later than the first post on 10th June, 1939, and should be accompanied by copies of three recent testimonials.

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(General Hospital.)

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(135 Beds.)

The Committee of Management invite applications for the posts of Two HOUSE SURGEONS, duties to commence on the 1st July, 1939. Salaries £120 per annum, together with board, apartments, and laundry.

Applications, with copies of not more than three recent testimonials, should be sent to the undersigned not later than the 10th June, 1939.

Secretary-Superintendent.

22nd May, 1939.

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2. S.W. LONDON.—Pleasant Residential Suburb.—PARTNERSHIP.—One-third or One-half Share in very sound old-estab. Practice, producing last year £3410. Panel of 1500. Appointments worth about £115 p.a. Suitable house with 4 bedrooms, &c. Premium 2 years' purchase. Ingoing partner should be experienced and preferably married.
3. OUTLYING EASTERN SUBURB.—Old-estab. mixed-class increasing PRACTICE, producing for past 12 months about £1600. Panel of 1430. Appointments worth £250 p.a. Excellent house (6 bedrooms, &c.). Large garden. Smaller house if wished. Premium 2 years' purchase. Partnership introduction up to 6 months if required.
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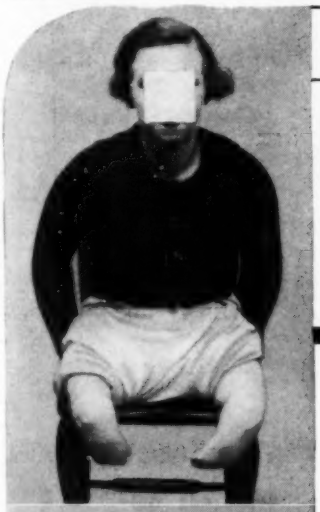

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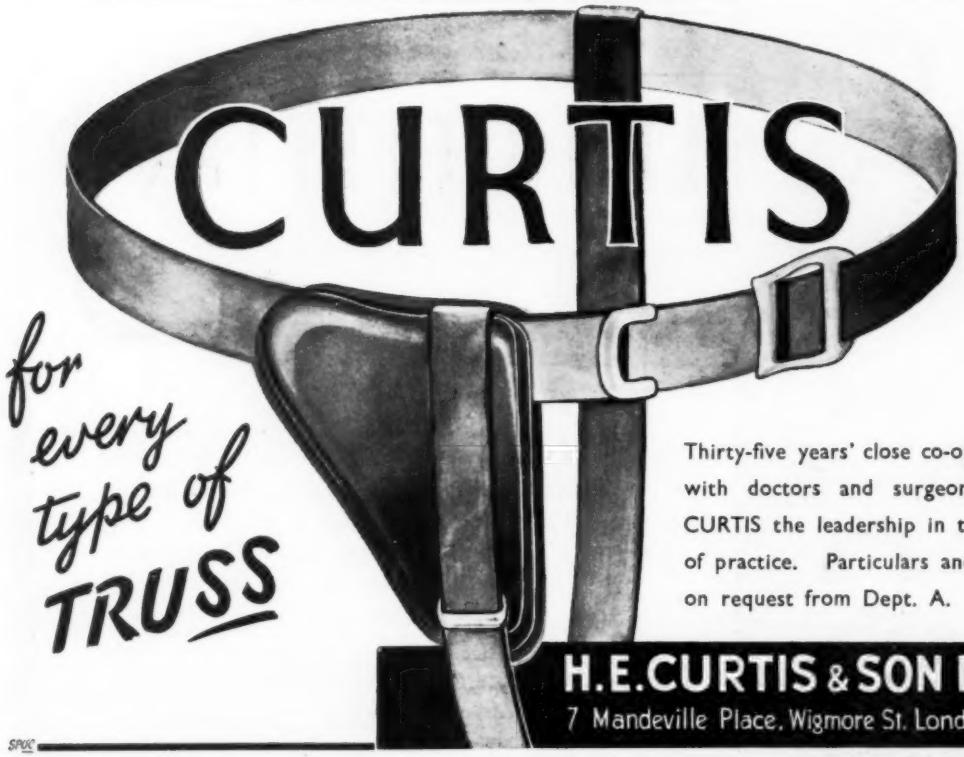

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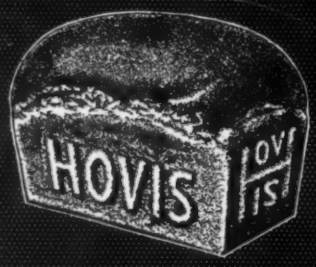

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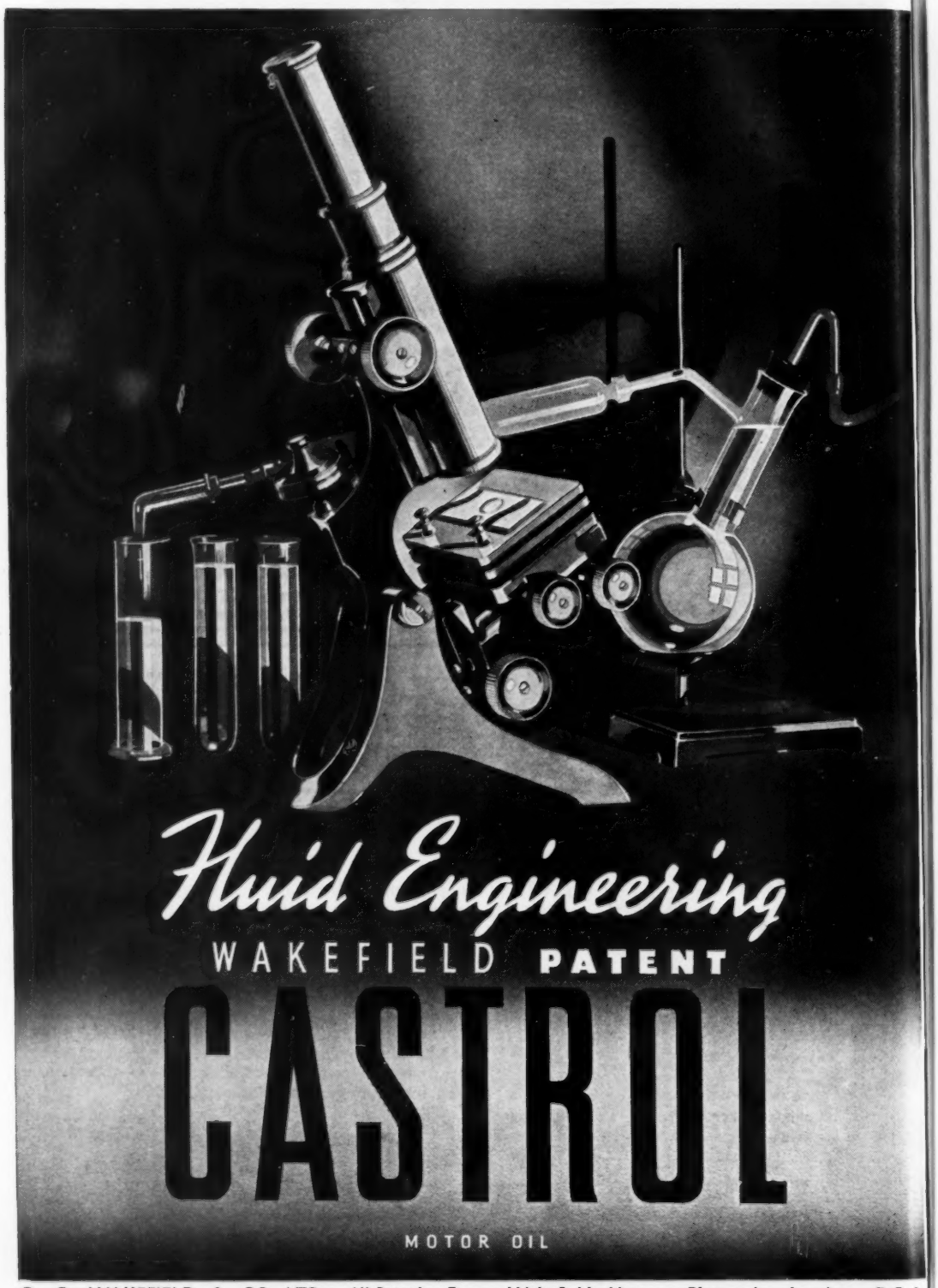

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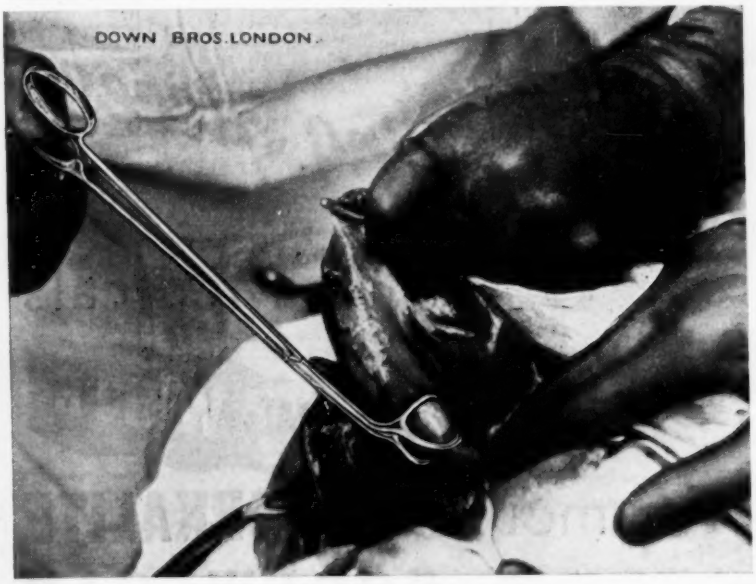

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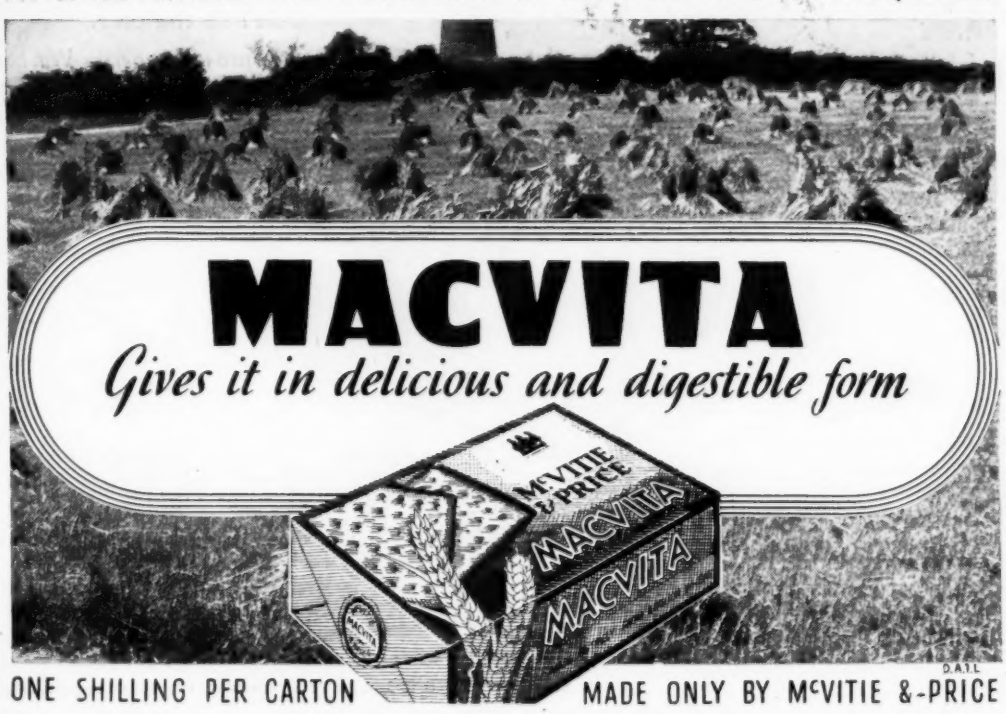

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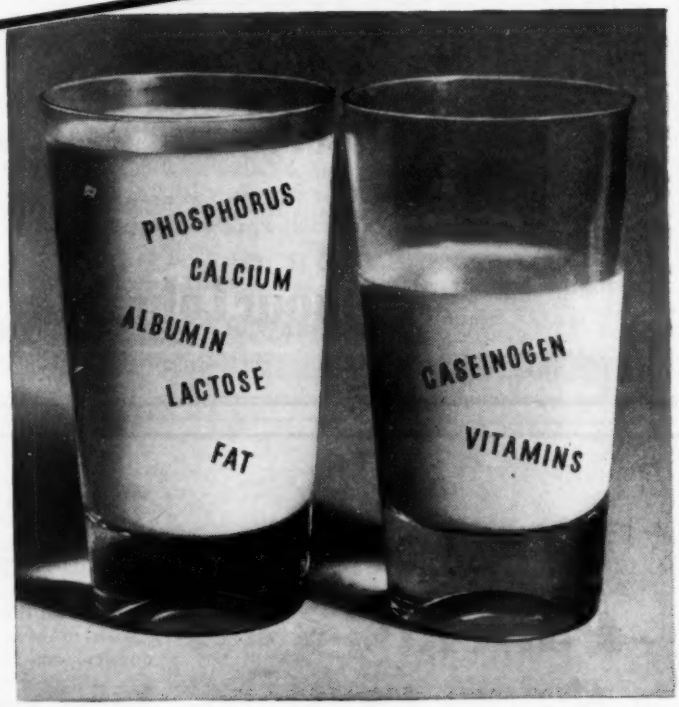

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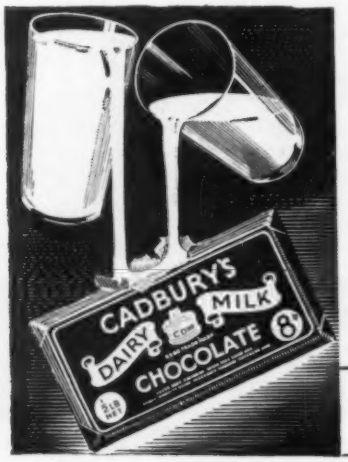

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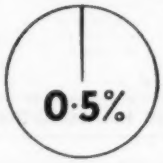

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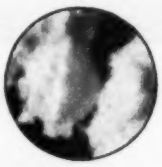

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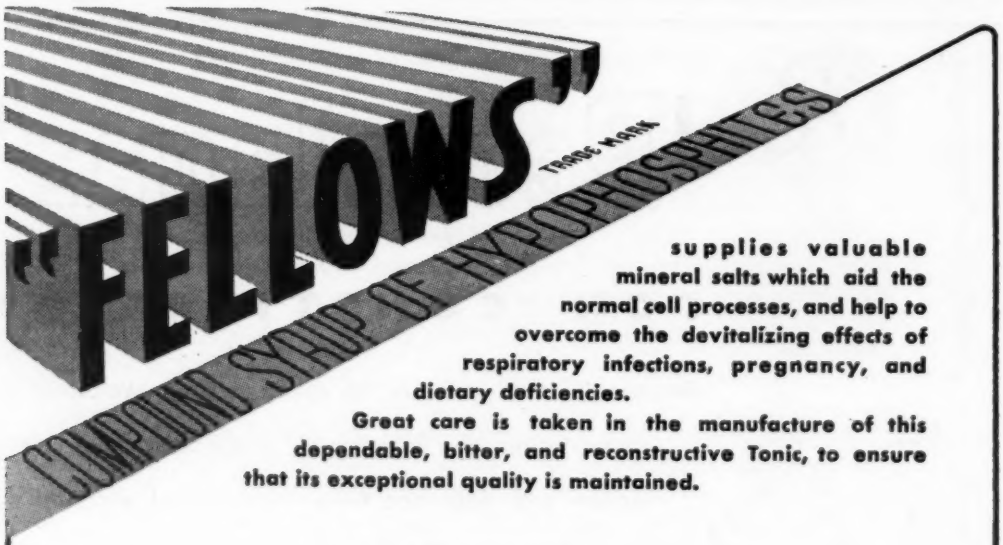

supplies valuable mineral salts which aid the normal cell processes, and help to overcome the devitalizing effects of respiratory infections, pregnancy, and dietary deficiencies.

Great care is taken in the manufacture of this dependable, bitter, and reconstructive Tonic, to ensure that its exceptional quality is maintained.

Samples on Request

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286 St. Paul Street, West Montreal, Canada

STILBOESTROL B.D.H.

Synthetic œstrogen for oral use

Extensive clinical trials with Stilbœstrol B.D.H. (*Brit. Med. Journ., January 7th,* 1939, *p.*10, and *Lancet, January 7th,* 1939, *p.*5) have shown that this substance is able to produce upon oral administration alone the full therapeutic action of the natural follicular hormone of the ovary.

INDICATIONS

Menopausal disturbances — both natural and artificial
Delayed puberty — ovarian insufficiency in the adult
Amenorrhœa Oligomenorrhœa Dysmenorrhœa
Sterility Pruritus vulvæ Endocrine arthritis

Detailed information regarding the clinical application of Stilbœstrol B.D.H. is available in a special booklet. A copy of this will be gladly forwarded upon request.

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Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

SHor/S/55

SERENOL

biological non-toxic

SEDATIVE

Formula

Campho Sulphonate of sparteine	6.0 grams
Campho Sulphonate of ephedrine	2.5 ,,
Extract of boldo	10.0 ,,
Extract of crataegus	20.0 ,,
Extract of salvia	10.0 ,,
Tincture of marrubium	10.0 ,,
Glycerine extract of thyroid (1 equals 1 of fresh gland)	0.10 ,,
Valerian	50.0 ,,
Hexamethylene-tetramine	10.0 ,,
Excipient q.s.	ad 1,000 c.c.

PRICE - 4/6 per 4 oz. bottle.
Sample and Literature on request.

Serenol is a sedative with action on the centres of the nervous vegetative system, sympathetic and parasympathetic, and on the cortical centres. Recent knowledge has shown the interaction of nervous vegetative system and endocrine system, and on this knowledge SERENOL is based. It is thus a biological, not a symptomatic, sedative, and, unlike many other sedatives, has not a direct depressant action on the cortical cerebral centres.

Serenol is indicated in conditions of anxiety and general irritability, insomnia, hyperthyroidism, hyperadrenalism (as in neurocirculatory asthenia, effort syndrome), the so-called nervous palpitations of the heart, etc.

Serenol is given in the following dosage. For mild cases one to two dessertspoonsful on retiring. For more severe cases one dessertspoonful at 10 a.m., one dessertspoonful at 4 p.m. and two dessertspoonsful on retiring.

Serenol, being a biological sedative containing no barbiturate, is not habit forming.

CONTINENTAL LABORATORIES LTD. 30 MARSHAM STREET, LONDON, S.W.1

★ PROSTATIC HYPERTROPHY

EXTRACT FROM CLINICAL REPORT:

Another case has responded favourably to the treatment by "Opocaps" Prostatic. The patient, aged 73, came to consult me about 10 months ago. He had been suffering severe urinary discomforts for several years, for which consultants had recommended prostatectomy as the only means of relief, but he had definitely refused to undergo an operation. He had a constant desire for micturition and had reached the stage of almost complete incontinence. By rectal examination I found a much enlarged prostate of the soft spongy type which was pressing on to the rectum. His condition was such that I had to tell him that he had left it too late for medical treatment and I advised him to have his prostate removed as early as possible. He greatly dreaded an operation and begged me to do what I could for him. With practically no hope of success I prescribed "Opocaps" Prostatic (B.O.C.), and was surprised when he reported about two months later that there was a considerable improvement in his condition, the desire for micturition being much reduced. Since then there has been a gradual improvement, and after 8 months' treatment he is able to get about during the day with but slight urinary inconvenience, and is disturbed only about twice nightly. There is some reduction in the size of the enlargement. He will continue the treatment for a further period.

My other four cases, so far, have not relapsed in any way, although some of them were treated two or three years ago. M.R.C.S., L.R.C.P.

℞ **"OPOCAPS" PROSTATIC (B.O.C.) gr. 3** (Oral)

Mitte - sig. 1 t.d.s., a.c. Supplied in boxes of 50 or 100 capsules.

℞ **"OPOJEX" PROSTATIC (B.O.C.)** (for injection)

Mitte - sig. 1 in die (or dieb. alt. when given concurrently with "Opocaps"). Supplied in boxes of 6 or 12 ampoules 2 c.c.

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Prescribe 1 to 2 capsules 3 or 4 times daily. Supplied only in packages of 20 capsules. Literature on request.

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First issued in 1917, this is a specially prepared stable solution of manganese hydroxide 1 in 400. Its action is to *increase* the protective powers of serum proteins — whereas a stronger solution can actually destroy these protective particles. The effect of Collosol Manganese is invariably tonic and stimulating.

Ampoules—single solution—for injection. In boxes of six. PRICE: Six ½ c.c. ampoules 3/9; six 1 c.c. ampoules 5/-; six 2 c.c. ampoules 8/6.

OUTSTANDING INDICATIONS

FURUNCULOSIS. After 22 years' constant use, Collosol Manganese is still the most widely used agent against staphylococcal infections.

ACNE. Collosol Manganese is still the best treatment available.

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MEDICALLY, the same result is achieved in a physiological manner by Veracolate, because the combined bile salts, sodium taurocholate and glycocholate, of which Veracolate is essentially composed, stimulate the formation of bile, which irrigates the entire biliary tract, promote drainage and overcome stasis.

Veracolate is of established value in chronic cholecystitis, cholangitis, biliary insufficiency, biliary engorgement, before and after biliary tract surgery and as a prophylactic where a gall-stone diathesis exists.

Veracolate brand Tablets are supplied in bottles of 50, 100 and 500.

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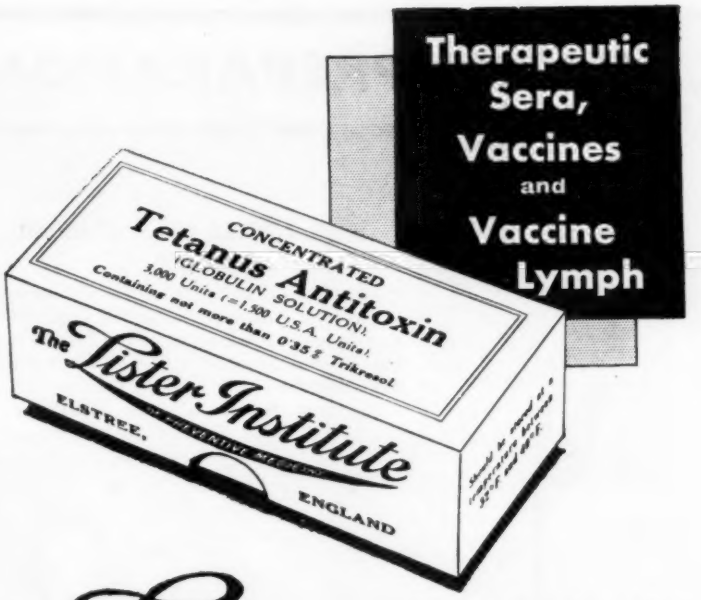
BRAND TABLETS

A TRUE CHOLAGOGUE



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OF PREVENTIVE MEDICINE

Therapeutic Substances Act, Licence No. 9

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Clinical and experimental observations have proved the value of tetanus antitoxin when used prophylactically. A dose of 3,000 to 6,000 International units should, therefore, be administered in all cases where there is a possibility of infection with *B. tetani*. If an operation is considered necessary the antitoxin should be given 3 to 6 hours before any attempt is made to clean the wound.

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Concentrated Tetanus Antitoxin:
In ampoules of

1,000	International	units	(500	U.S.A. units)	in about	2 c.c.,	each	1/6
3,000	,,	,,	(1,500	,,)	,,	3 c.c.,	,,	4/-
10,000	,,	,,	(5,000	,,)	,,	5 c.c.,	,,	12/-
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DOSE: Half to one drachm, diluted.
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Like other Abbott vitamin products, Penta-Kaps are biologically standardised for vitamins A, D, B_1 and B_2 and chemically titrated for vitamin C. You can thus completely depend on Penta-Kaps to furnish all of the vitamin units which are claimed on the label. Penta-Kaps are supplied in bottles of 25 and 100 capsules and are available through most prescription pharmacies.

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Vitamin A	6200 International units
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Vitamin B_1	75 International units
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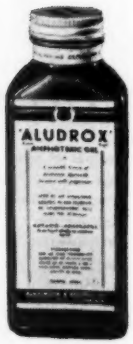

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M. 292

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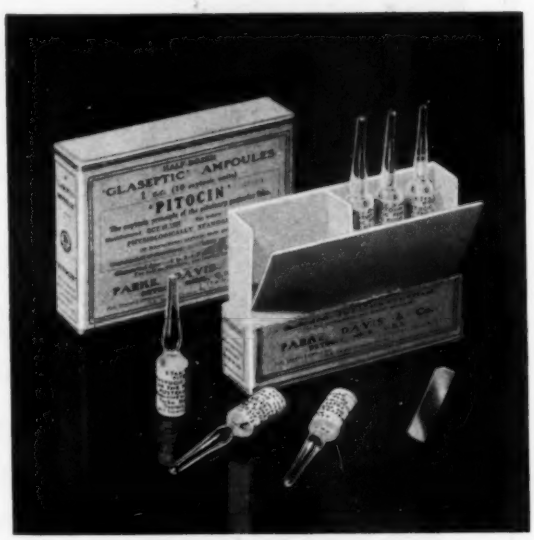

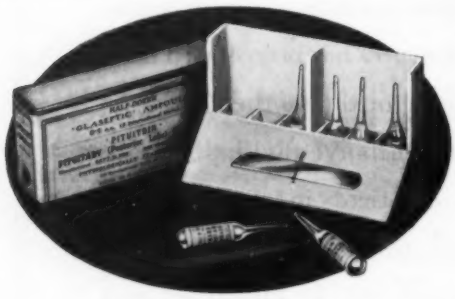

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Containers of 3,000 *Units,* 12/6 *each*
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A mucilaginous bowel corrective for the treatment of chronic constipation, hæmorrhoids, and mucous colitis. In jars and tins.

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[*See also pp.* 17 & 27.]

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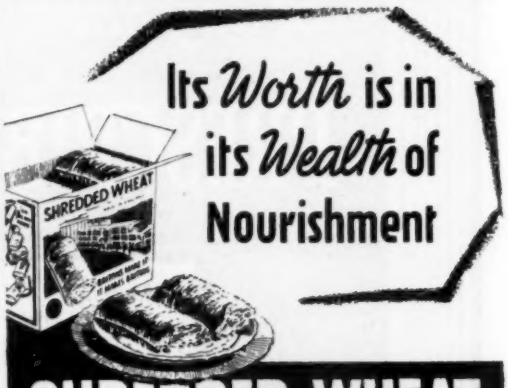

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Candidates must send in their names to the External Registrar, A. Clow Ford, M.B.E., B.A., with any attestation of their qualifications they may think desirable on or before Monday, 10th July, 1939.

The Senate desire that no application of any kind be made to individual members.

If testimonials are submitted, one copy only of each is required. In no case should original testimonials be submitted. If more than one Examinership is applied for, a separate and complete application must be forwarded in respect of each Examinership. The appointments will be made by the Senate in November. Applicants who desire that the result should be communicated to them are requested to enclose a stamped and addressed envelope with their application.

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FRIDAY, JUNE 30TH.

DIPLOMA IN OPHTHALMIC MEDICINE AND SURGERY,
DIPLOMA IN MEDICAL RADIOLOGY,
FRIDAY, JULY 7TH

Candidates who have fulfilled the necessary conditions, and who desire to present themselves for Examination, must give notice in writing to the Secretary, Examination Hall, 8–11, Queen-square, London, W.C.1, at least twenty-one days before the date of the Examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

HORACE H. REW, Secretary.

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H. J. BUTCHART, Secretary.

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Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 800 ft., and commanding extensive sea and mountain views. Central heating, electric light, X ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Rooms now available from 5 guineas weekly.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction.

Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

Fully equipped gymnasium and indoor swimming pool under qualified instructors. Facilities under special recreational therapists for all indoor and outdoor games, including squash, badminton, table tennis, golf, cricket, football, hockey, lawn tennis, croquet, and bowling. The hospital has its own Church, Library, Cinema, and Café.

The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to :—

Physician Superintendent, **P. K. McCowan**, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

HOLLOWAY SANATORIUM, Virginia Water

A Registered Hospital for the Treatment of

Mental Disorders of the EDUCATED CLASSES

(Founded and Endowed by Thomas Holloway in 1885)

This Institution is situated in a beautiful and healthy locality within easy reach of London. It is fitted with every comfort. Patients can have Private Bedrooms and Special Nurses, as well as the use of General Sitting Rooms, at moderate rates of payment. Voluntary Patients can be admitted.

There is a Branch Establishment at CANFORD CLIFFS, BOURNEMOUTH, where Patients can be sent for a change and be provided with all the comforts of a well-appointed home.

For Terms, apply to the

RESIDENT MEDICAL SUPERINTENDENT, St. Ann's Heath, Virginia Water, Surrey

NEW LODGE CLINIC,

WINDSOR FOREST.

New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a " team " of physicians and specialists.

All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, tropical diseases, and functional and organic nervous disorders.

Particulars can be obtained on application to

The Secretary, New Lodge Clinic, Windsor Forest, Berks. *Telephone:* **181 & 182, Winkfield Row**

TOR-NA-DEE SANATORIUM

MURTLE, DEESIDE, ABERDEENSHIRE

FOR THE DIAGNOSIS AND TREATMENT OF ALL FORMS OF TUBERCULOSIS

Managing Director: DAVID LAWSON, M.D., F.R.S.E.

Southern aspect. Low rainfall. Pure bracing air. Sheltered grounds. Beautiful surroundings. All modern equipment for diagnosis and treatment, including operating theatre. **No extra charge for X Rays, Artificial Pneumothorax, Ultra-Violet Light, or other special treatment.**

Day and night Nursing Staff. All bedrooms have central heating, electric light, hot and cold running water, and wireless (head-phones). Comfortable and airy public rooms.

Medical Superintendent: J. M. JOHNSTON, M.B., M.R.C.S., D.P.H. For terms and prospectus apply to the Secretary.

Telephone: Cults 107.

SHAFTESBURY HOUSE

FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No. 8 Formby.*

CALDECOTE HALL

NUNEATON
WARWICKSHIRE

('Phone: Nuneaton 241)

Residential treatment of

"Nervous Disorders" & Alcoholism

(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Alcoholism and "Nerves" by psychotherapeutic and ancillary methods.

Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.

THE ARCHER NERVE TRAINING COLONY

LANGLEY RISE, KING'S LANGLEY, HERTS.

Started 35 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. Telephone: King's Langley 7519. Lessons and Treatments in the art of Relaxation can also be obtained at the "**FRANCES ARCHER**" Centre, 30, Dorset Sq., N.W.1 (near Baker St. Stn.), Weds. and Sats. 10–1 p.m., 2–5.30 p.m. Tel.: Ambassador 2864. All applications to the Secretary, King's Langley.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FIVE GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

EPILEPSY

Owing to extensions there are at present a few Vacancies at the

DAVID LEWIS COLONY

For Ladies and Gentlemen who have Epilepsy but are of good intelligence and sound mind.

Colony life gives to most people who have epilepsy the best chance of happiness and contentment.

Apply to the DIRECTOR, THE DAVID LEWIS COLONY, WARFORD, ALDERLEY EDGE.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £5 5s. per week upwards.
2nd Class (men and women) 32/- per week.

For further particulars apply:
C. EDGAR GRISEWOOD, A.C.A., Secretary
20, Exchange Street East, Liverpool, 2

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply
MISS THWAITES.

NORTHUMBERLAND HOUSE
GREEN LANES,
FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.
Telephone: Stamford Hill 2688.
For further particulars apply to the MEDICAL SUPERINTENDENT.

SPRINGFIELD HOUSE
'Phone: BEDFORD 3417. **Near BEDFORD**
For Mental Cases with or without Certificates.
Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).
For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.
INTERVIEWS IN LONDON BY APPOINTMENT.

FENSTANTON
Christchurch Road, Streatham Hill, S.W.2
A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds
Apply: Dr. MADELINE R. LOCKWOOD,
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

Grove House, All Stretton, Church
STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.
Climate healthy and bracing.
Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

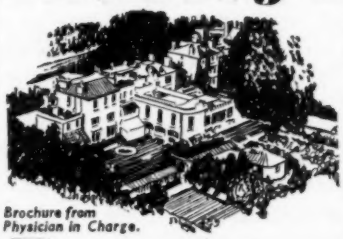
ALCOHOLISM
Drug Habits, and Nervous Disorders

25 minutes from London, situated in charming grounds and country, is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron. **RESIDENT MEDICAL SUPERINTENDENT,** E. G. MORRIS, L.R.C.S.I., L.R.C.P.I.

CHISLEHURST 451

OLD HILL HOUSE
CHISLEHURST, KENT.

CITY OF LONDON MENTAL HOSPITAL
Near DARTFORD, KENT.
Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

Sunnyside

Brochure from Physician in Charge.

Delightfully situated at the foot of the South Downs. Specially caters for patients convalescent or requiring a restful holiday, combined with facilities for treatment by Massage, Foam and other baths, Electrical (including ultra-short wave diathermy) and other physical methods. Electric lift. Medical Practitioners cordially invited to visit

Restorium
HASSOCKS - - SUSSEX 'Phone 103
(in association with fully licensed Downs Hotel)

HEIGHAM HALL, NORWICH
A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.
Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

BARNWOOD HOUSE, GLOUCESTER.
A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.
For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.
Telephone: No. 6207 Gloucester.

BROOKE HOUSE, CLAPTON
A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.
Voluntary, Temporary, and Certified Patients received.
For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

KINMEL HALL *Rheuma Spa*
Modern Spa Treatments, including Continental Piscany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*
ABERGELE - NORTH WALES

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Camba.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (average—14 gns.)
8 Operating Theatres.

160 State Registered Nurses.
2 Resident Medical Officers (for emergencies)

Patients only received under the supervision of their own Medical Practitioner. Drugs and Dressings free (other than Proprietary Articles).

Illustrated Brochure on application to Secretary.

THE CLINIC

20, Devonshire Place, London, W.1

Telephone: WELbeck 4444 (20 lines)

BAD - NAUHEIM

40 minutes from Frankfurt-on-Main. From Victoria 18 hours

Affections of the Heart and Blood-vessels, Rheumatism, Nervous Disorders, Catarrhs

The action of naturally-warm carbonic-acid springs with saline contents, combined with first-class medical service.
BAD-NAUHEIM possesses in its Balneological Institute and in the William G. Kerckhoff-Institute a combined place of research on affections of the heart and blood-vessels, which provides the theoretical foundations and the scientific guarantee for the treatment of these ailments.

GOLF, SHOOTING, Etc.

Special terms for physicians and their families

For all particulars apply to German Railways Information Bureau, 19, Regent Street, London, S.W.1, and Tourist Offices, or to Kurverwaltung Bad-Nauheim.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF PATHOLOGY tenable at ST. THOMAS'S HOSPITAL MEDICAL SCHOOL. Salary £1200 a year.

Applications (twelve copies) must be received not later than first post on 15th June, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

The Queen's Hospital for Children,

Hackney-road, E.2.
(167 Beds.)

The Board of Management invite applications for the post of ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England. Attendance required on two half-days weekly (including Tuesday mornings for Out-patients). The appointed candidate will have charge of beds. An honorarium to cover travelling expenses will be paid.

Further information may be obtained from the undersigned, to whom applications, with copies of three recent testimonials, should be sent not later than June 17th, 1939.

CHARLES H. BESSELL, Secretary.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-RAY DEPARTMENT.

Candidates must be fully qualified medically.

Experience in radiology essential. Honorarium £100 per annum. Attendance five half-days weekly.

Applications, together with copies of testimonials, should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than Saturday, 10th June, 1939.

ARTHUR G. ELLIOTT, House Governor.

King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN to the CHILDREN'S DEPARTMENT.

Applications, with copies of three testimonials, should be sent before June 10th to the House Governor, King's College Hospital, Denmark Hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1939 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** and in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose and throat, venereal diseases, etc.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

After they are confirmed, officers become eligible in due course for promotion to higher specialist or administrative posts, with salaries varying from £1200 to £1800.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of an officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when returning from leave. Assistance is also given towards family passages.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

Royal Masonic Hospital,
Ravenscourt Park, London, W.6.

RESIDENT SURGICAL OFFICER (Male) required. Duties to commence 1st July, 1939. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments in General Hospitals. Masonic qualifications unessential.

The Institution (145 beds at present, but to be increased) is primarily for Paying Patients of both sexes of moderate means, usually unable to afford ordinary Nursing Home Treatment, &c.

Applications, stating full particulars, to be sent on or before Wednesday, 14th June, 1939, to the Honorary Secretaries, from whom further information may be obtained.

Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the post of PHYSICIAN for Diseases of the Skin (Second) at the above Hospital.

Candidates must possess the degree of M.D. or M.B. obtained by Examination at a British University, and be Fellows or Members of the Royal College of Physicians.

Full particulars of the appointment and details with regard to the submission of testimonials, &c., may be obtained from the undersigned to whom applications should be returned not later than June 9th, 1939.

GILBERT G. PANTER, Secretary.

St. Peter's Hospital for Stone, etc.,
Henrietta-street, Covent Garden, W.C.2.

The appointment of CLINICAL ASSISTANTS to the undermentioned members of the Honorary Staff, who attend the Out-patients Department at the times indicated, will be considered at an early date. A fee of Five Guineas becomes payable to the funds of this Hospital on appointment, and applications should reach the undersigned on, or about, Tuesday, 6th June.

Mr. JOHN SANDREY	Mondays	3 to 6	P.M.
Mr. ALBAN ANDREWS	Tuesdays	2 ,, 5	P.M.
Mr. R. OGIER WARD	Wednesdays	3 ,, 7	P.M.
Mr. F. J. F. BARRINGTON	Thursdays	3 ,, 7	P.M.
Mr. R. OGIER WARD	Fridays	9.30 ,, 11.30	A.M. (Women and Children)
Mr. ALBAN ANDREWS	Fridays	3 ,, 6	P.M. (Male out-patients)
Mr. JOHN SANDREY	Saturdays	2 ,, 6	P.M.

BEECHEY ROGERS, Secretary.

Queen Mary's Hospital for the East
END, Stratford, London, E.15.

Applications are invited for the post of RADIOLOGIST to the above Hospital.

The Radiologist will be in sole charge of the Radiological department, which houses Diagnostic and Superficial Therapy equipment. Attendances required will be four sessions weekly, on separate days. An adequate technical staff is maintained.

Terms of appointment for one year and renewable thereafter.

Remuneration £350 per annum.

Applications, together with copies of three recent testimonials, to be sent to the undersigned on or before Friday, the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

Queen Mary's Hospital for the East
END, Stratford, London, E.15.

Wanted a REGISTRAR to the EAR, NOSE AND THROAT DEPARTMENT, to assist the Aural Surgeon, who is in charge of that department. The appointment carries with it an honorarium of 50 guineas per annum.

Attendance will be required at the Hospital on Tuesday and Friday mornings at 9 A.M.

Applications from candidates, who must be Fellows of the Royal College of Surgeons, accompanied by copies of three testimonials, to be sent to the undersigned not later than Friday the 9th of June, 1939.

RAPHAEL JACKSON, Major, Secretary.

Connaught Hospital,
Walthamstow, E.17.
(118 Beds with four Resident Medical Officers.)

Applications are invited for the following appointments:—

(a) HOUSE PHYSICIAN (Male).
(b) HOUSE SURGEON (Male).
(c) CASUALTY OFFICER (Male).

Salaries at the rate of £110 per annum with residence, board and laundry. The appointments are for six months commencing, on the 1st July, 1939.

Applications, stating age, nationality, qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be received on or before Saturday, 17th June.

R. HALTON HARRISON, General Secretary.

Metropolitan Borough of Greenwich.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER.

The Council of the above-named Borough invites applications from Male registered Medical Practitioners not exceeding forty-five years of age, for the appointment of an Assistant Medical Officer.

The person appointed will assist in the work of the Public Health Department and his duties will include attendance at the Council's Tuberculosis Dispensary. He will also perform such duties as may be considered necessary by the Medical Officer of Health.

The inclusive commencing salary will be at the rate of £500 per annum, rising, by annual increments of £25, to a maximum salary of £700 per annum. It is desirable, though not essential that applicants should possess the Diploma in Public Health. Experience in connexion with the work of a Tuberculosis Dispensary will be considered an additional qualification, and in the event of the successful candidate possessing special experience or qualifications for the appointment, consideration will be given to an increase in the amount of the commencing salary.

The successful candidate will be required to devote the whole of his time to the service of the Council, shall not engage in private practice, and shall reside within the Borough.

The appointment will be terminable by three months' notice in writing on either side, and will be subject to the provisions of the Council's Superannuation Acts.

Applications must be made on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials, must be sealed up and endorsed "Assistant Medical Officer" and must reach me not later than 10 A.M. on Monday, 19th June, 1939.

Canvassing members of the Council, either directly or indirectly, will be a disqualification.

D. J. REASON, Town Clerk.

Town Hall, Greenwich, S.E.10, 2nd June, 1939.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

PATHOLOGIST AND CURATOR.

Applications are invited for the office of Whole-time Pathologist and Curator. Candidates must be registered Medical Practitioners.

Salary will commence at the rate of £650, rising to £900 per annum, which salary will be augmented by fees from private work at the Hospital.

The post is a newly created one and it is hoped that the successful applicant will make the position of such value to the Hospital in research, and to the Medical School in teaching, that he will hold it for many years.

The routine duties will consist in the examination of and reporting upon pathological specimens and the teaching of Ophthalmological Pathology. Facilities will be available for biochemical investigations and research.

The Curator is responsible for the upkeep and preservation of the museum and library.

The Pathologist and Curator will be appointed for one year and will be eligible for reappointment yearly.

Candidates are requested to send copies of their application and testimonials (which need not be printed) to the acting Medical and Surgical Staff, whose names and addresses can be obtained on application to the Secretary.

A copy of the Regulations governing the post will be sent on application.

Applications, stating age, with copies of testimonials, must be received not later than 23rd June, 1939.

A. J. M. TARRANT, Secretary.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment:—

HOUSE SURGEON, vacant July 15th. The appointment is for nine months (six months as House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence and laundry.

Applications, with copies of testimonials, should be sent by June 9th to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Candidates must be registered Medical Practitioners of at least two years' standing and have held at least two previous house appointments. Preference will be given to candidates experienced in practical operative surgery.

The appointment is for one year from 9th August, 1939. Particulars concerning remuneration and emoluments (amounting to approximately £370 with board and residence), together with the necessary forms of application and rules, can be obtained from the undersigned.

Applications, with copies of testimonials, should be sent on or before June 16th to

GILBERT G. PANTER, Secretary.

The Board of Management of the

NATIONAL TEMPERANCE HOSPITAL, N.W.1, desires to appoint an HONORARY PHYSICIST.

Candidates are asked to forward their applications, with particulars of their qualifications and experience, addressed to the undersigned on or before Friday, June 9th.

A. C. ADAMS, Secretary.

St. John Clinic and Institute of Physical

MEDICINE, Ranelagh-road, S.W.1.

Applications are invited from candidates holding higher surgical qualifications and engaged in consulting practice only for the post of ASSISTANT SURGEON to the ORTHOPÆDIC DEPARTMENT.

Applications with copies of three recent testimonials should be sent to the Secretary, before June 28th, 1929.

St. John Clinic and Institute of Physical

MEDICINE, Ranelagh-road, S.W.1.

Applications are invited for the post of CLINICAL ASSISTANT to the LIGHT DEPARTMENT. All applicants must be fully qualified. Attendance at the Clinic two or three times a week on Monday, Wednesday and Friday afternoons.

Applications, with copies of testimonials, to be sent to the Secretary.

The Willesden General Hospital,

Harlesden-road, N.W.10.

REFRACTION ASSISTANT.

Applications are invited from fully qualified and registered Medical Practitioners for the appointment of Refraction Assistant. The Ophthalmic Clinic is held on Thursday afternoons and an honorarium of £1 1s. per session is paid.

Applications should be received by the Secretary not later than Tuesday, 20th, June, 1939.

The Willesden General Hospital,

Harlesden-road, N.W.10.

HONORARY CLINICAL ASSISTANTS.

Applications are invited for appointment to the following sessions:—

EAR, NOSE AND THROAT ..	Wednesday afternoons.
GYNÆCOLOGICAL	Thursday mornings.
SURGICAL..	Friday afternoons.
MEDICAL	Friday mornings.
SKIN	Saturday mornings.
DENTAL	Monday mornings.

Applications should be forwarded to the Secretary, from whom further details of the appointments may be obtained, and should be received not later than first post on Tuesday, 20th June, 1939.

Belgrave Hospital for Children,

1, Clapham-road, S.W.9.

The Committee of Management invites applications for the post of Non-resident OUT-PATIENT MEDICAL OFFICER. Candidates must be fully qualified and registered, and must have had previous experience of children's diseases. Attendance will be required from 9 A.M. to 1 P.M. daily (Mondays to Fridays); remuneration will be at the rate of £150 per annum. The appointment will be for a period of six months, renewable for a further six months if approved by the Committee of Management.

Applications, stating age, experience, qualifications, and enclosing copies of three recent testimonials, should be delivered to the undersigned by Friday, 9th June, from whom further information may be obtained.

THOS. CLAPHAM, Secretary.

The Middlesex Hospital and Medical

SCHOOL, W.1.

Applications are invited for the post of SURGICAL REGISTRAR.

The appointment will be for one year from the 1st July, 1939, and the holder is eligible to apply for reappointment and may retain office for three consecutive years. Salary £300 per annum.

Further particulars may be obtained from the Secretary-Superintendent, to whom applications, with copies of not more than three testimonials, must be sent by NOON on Thursday, June 15th.

S. R. C. PLIMSOLL, Secretary-Superintendent.

Hospital for Consumption and Diseases

OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of SURGICAL REGISTRAR (Half-time) for which there are two vacancies. Salary £150 per annum. Candidates should hold the Diploma of F.R.C.S. Particulars as to duties, &c., may be obtained from the Secretary.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 19th June, 1939.

F. G. ROUVRAY, Secretary.

Brompton, June, 1939.

The British Hospital for Functional

MENTAL AND NERVOUS DISORDERS
(FORBES WINSLOW MEMORIAL),
72, Camden-road, N.W.1.

Applications are invited for the appointment of HONORARY PHYSICIAN to The British Hospital for Functional Mental and Nervous Disorders. Candidates must hold the Diploma in Psychological Medicine and their applications (eight copies) must be received by the undersigned by the 19th June, 1939.

DENIS G. WILLIAMS, Secretary.

St. Mark's Hospital for Cancer, Fistula,
AND OTHER DISEASES OF THE RECTUM,
City-road, London, E.C.1.

Applications are invited for the post of HOUSE SURGEON (Male). Salary £120 per annum, with board, residence, and laundry. The appointment is for a minimum of six months. Duties to commence on 1st July, 1939.

Applications, with copies of testimonials, must reach the Secretary (from whom further particulars may be obtained) not later than Monday, 12th June, 1939.

Bolingbroke Hospital,
Wandsworth Common, S.W.11. (135 Beds.)

Required: HOUSE SURGEON (Male, unmarried). CASUALTY OFFICER (Male, unmarried).

The appointments are for six months, commencing on the 1st July, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before June 7th, 1939.

W. S. RANDOLPH BISS, Secretary-Superintendent.

St. Mary's Hospital, London, W.2.

PHYSICIAN IN CHARGE OF THE DEPARTMENT FOR DISEASES OF CHILDREN.

Applications are invited for the above vacancy on the Honorary Medical Staff of the Hospital.

Candidates must be Fellows or Members of the Royal College of Physicians of England. Applications, with copies of testimonials not exceeding six in number, must reach the undersigned on or before Monday, 19th June, 1939.

The appointment is for five years, at the expiration of which term, the holder will be eligible for re-election. A list of duties attaching to the office may be obtained on application.

W. PARKES, House Governor.

London County Council.

Applications invited for appointment as RESIDENT MEDICAL SUPERINTENDENT of ST. JAMES'S HOSPITAL, Ouseley-road, Balham, S.W.12. (898 Beds.) Salary £1300–£50–£1550 with emolument of unfurnished house, with payment by Council of rates. Person appointed will be under direction of Medical Officer of Health, and may be required to undertake duties at other establishments of the Council. Candidates must be qualified Medical Practitioners of five years' standing, have been house physician or house surgeon in public general hospital and have had experience of hospital administration.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Clerk of the Council, County Hall, S.E.1, returnable by 13th June. Canvassing disqualifies.

London County Council.

Applications are invited for a full-time permanent position of ASSISTANT MEDICAL OFFICER, chiefly in connexion with the Council's school medical work. Special experience of the medical examination of children is essential. Salary £600 by £25 to £750.

Forms of application (stamped addressed foolscap envelope necessary) may be obtained from the Medical Officer of Health (S.D.5), The County Hall, Westminster Bridge, S.E.1, and must be returned by 17th June, 1939. Canvassing disqualifies.

The Hospital for Women,
Soho-square, London, W.1.

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS to the Surgeons in charge of Out-patients. The appointments will be for attendance at one or two Out-patient Sessions per week for a period of six months commencing 1st July, 1939. Sessions are held at 1.45 P.M. every weekday except Saturdays.

Applications must reach the undersigned by 17th June.

J. P. HEMING, Secretary.

Westminster Hospital, S.W.1.

Applications are invited from registered Medical Practitioners with mental experience for the Honorary appointments of SENIOR and JUNIOR CLINICAL ASSISTANT to the DEPARTMENT OF PSYCHOLOGICAL MEDICINE. The possession of the D.P.M. would be an advantage.

Attendance on Mondays and Thursdays from 4.30 P.M. to 7.30 P.M. approximately.

Apply, stating age, qualifications, and experience to the undersigned immediately.

CHARLES M. POWER, Secretary.

London Hospital, E.1.

Applications are invited for the post of MEDICAL FIRST ASSISTANT and REGISTRAR. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Candidates must be fully qualified medically.

Applications should arrive at the Hospital not later than by the first post on Saturday, 15th July.

Further particulars may be obtained from the House Governor.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

Applications are invited for the post of MEDICAL OUT-PATIENT FIRST ASSISTANT. Candidates must be fully qualified medically. The salary of the post is £150 per annum. The duties involve attendance in the Medical Out-Patient Department on every week-day afternoon.

Applications, with copies of testimonials should be sent to the House Governor from whom further particulars may be obtained and should arrive not later than on Saturday, 17th June.

ARTHUR G. ELLIOTT, House Governor.

Maida Vale Hospital for Nervous
DISEASES, London, W.9.

ASSISTANT PHYSICIAN.

Applications are invited for the appointment of Honorary Assistant Physician. Candidates should be Fellows or Members of the Royal College of Physicians and Graduates of a University. Applications, accompanied by three copies of testimonials, should reach the undersigned not later than the 14th June, 1939.

L. C. DIXON, Secretary and General Superintendent.

Central London Throat, Nose and Ear
HOSPITAL, Gray's Inn-road, W.C.1.

ASSISTANTS IN THE OUT-PATIENT DEPARTMENT.

There are the following vacancies:—

SECOND Assistant for attendance on Mondays at 2 P.M.

SECOND Assistant for attendance on Saturdays at 9.30 A.M.

The duties are to assist the Surgeons in seeing the patients and the posts are honorary.

Applications, which may be for periods of three, six or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

Hampstead General and North-West
LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE SURGEON.

Applications are invited from registered Medical Practitioners for the appointment of House Surgeon for six months, vacant July 1st. Salary £100.

Applications, to be made on the prescribed form, together with copies of not more than three testimonials, should be returned to the Secretary by June 17th next.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)

Half-time non-resident RECEIVING ROOM OFFICER required for six months as from 1st July. Morning or afternoon sessions with alternate Saturdays 9 A.M. to 12 noon. Previous experience in resident posts essential. The post is suitable for those studying for higher examinations. Salary at the rate of £150 per annum with meals.

Applications, stating age, nationality and experience of House appointments, accompanied by copies of testimonials, to be sent in immediately to the undersigned.

F. A. LYON, Secretary, Seamen's Hospital Society.

24th May, 1939.

Evelina Hospital for Sick Children,
Southwark, S.E.1.

Applications are invited for the post of RADIOLOGIST.

Candidates must be registered Medical Practitioners specially qualified in Radiology and must not be engaged in General Practice. There is an honorarium of £120 per annum attached to the appointment.

Copies of the Standing Orders relating to the post can be obtained from the undersigned, and applications must reach the Hospital by first post on Wednesday, 14th June.

W. H. SIDNELL, House Governor.

26th May, 1939.

South London Hospital for Women
AND CHILDREN, South Side, Clapham Common, S.W.4.

The Board of Management invite applications from Medical Women for the appointment of

RADIOLOGIST

Full particulars may be obtained from the Secretary.

Applications, with copies of testimonials, to reach the Secretary at the hospital not later than Saturday, July 15th.

West London Hospital,
Hammersmith, W.6. (239 Beds.)

Required a RESIDENT CASUALTY OFFICER (Male or Female). The appointment is tenable for six months from 1st July next and is terminable by one month's notice on either side. A considerable portion of the duties will be in connexion with the Special Injuries Clinic. Salary at the rate of £100 a year with full board and lodging. Candidates must be duly qualified registered Medical Practitioners and preference will be given to those who have held a resident appointment at a General Hospital.

Applications (which must be on printed forms obtained from me) must reach me not later than first post on Friday, 9th June. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a Special Meeting of the Medical Council at 4.30 P.M. on Friday, 23rd June, and the House Committee Meeting the same day, when the appointment will be made.

H. A. MADGE, Secretary.

The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

HOUSE PHYSICIAN required 1st July, 1939.
CASUALTY OFFICER required 1st July, 1939. Some Dermatological work in addition.
Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.
Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 15th June, 1939.

CHARLES H. BESSELL, Secretary.

30th May, 1939.

City of Manchester Education
COMMITTEE.

APPOINTMENT OF SCHOOL MEDICAL OFFICER.
Applications are invited for the post of School Medical Officer from candidates who possess the necessary qualifications. Salary: £1000 per annum.
The form of application and a copy of the particulars and conditions of appointment may be obtained from the undersigned. The last date for the receipt of applications is June 14th, 1939.
Canvassing, directly or indirectly, will disqualify a candidate.

W. O. LESTER SMITH, Director of Education.

Education Offices, Deansgate, Manchester 3,
30th May, 1939.

Derbyshire County Council.
MATERNITY AND CHILD WELFARE

HOLIDAY LOCUM—MEDICAL OFFICER
Applications are invited for the above temporary appointment for duty in Derbyshire from July 4th to September 27th, both dates inclusive.
The duties would consist of attendance at Infant Welfare Centres and Antenatal Clinics. The salary paid will be at the rate of £600 per annum, plus travelling expenses and a subsistence allowance in accordance with the County Scale.
Applications should be sent to the undersigned not later than June 9th.

W. M. ASH, County Medical Officer.

New County Offices, Derby, 26th May, 1939.

City of Birmingham.
TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH.
The Public Health and Maternity and Child Welfare Committee invite applications for a *temporary* whole-time Assistant Medical Officer of Health for general public health duties, for a period of four months from the middle of June. Candidates must be qualified Medical Practitioners and hold the Diploma in Public Health.
Salary at the rate of £600 per annum.
Applications, setting out the candidate's age, qualifications and previous hospital and public health experience, to be sent in candidate's own handwriting, accompanied by copies of two recent testimonials, to the Medical Officer of Health, Council House, Birmingham, not later than Monday morning, June 12th.

F. H. C. WILTSHIRE, Town Clerk.

Queen's University of Belfast.
APPOINTMENTS TO JUNIOR LECTURESHIPS.
Applications are invited for Junior Lectureships in BACTERIOLOGY, BIOCHEMISTRY and PUBLIC HEALTH at a salary of £300 per annum.
After a probationary period of three years the Junior Lecturer will be eligible for promotion to a Lectureship at a salary of £375 per annum, rising by annual increments of £25 to £450. Duties to being on 1st October, 1939. Last day for receiving applications is 17th June, 1939.
Further particulars may be obtained on application to the undersigned.

RICHARD H. HUNTER, Secretary.

Queen's University, Belfast.

Royal South Hants and Southampton
HOSPITAL, SOUTHAMPTON.

Applications are invited for the post of ASSISTANT RADIOTHERAPIST in the new RADIUM and DEEP X-RAY BLOCK. The department is a regional centre under the National Radium Commission. Candidates must be holders of the D.M.R.E. or equivalent qualification. A salary of £475 per annum will be paid, rising by two annual increments of £25 to £525 per annum.
Applications, with copies of testimonials, to be addressed to the House Governor and Secretary not later than 16th June, 1939.

Bognor Regis War Memorial Hospital,
BOGNOR REGIS.

HONORARY CONSULTANT OPHTHALMIC SURGEON—the Management Committee of the above Hospital invites applications for the post of Honorary Consultant Ophthalmic Surgeon, from qualified Ophthalmologists.
Further particulars will be furnished if desired.
Applications to be sent to:—

J. MURRAY, Secretary.

City of Leeds.
MENTAL DEFICIENCY ACTS, 1913–1938.

APPOINTMENT OF MEDICAL SUPERINTENDENT OF THE MEANWOOD PARK COLONY, LEEDS.
The Leeds Mental Health Services Committee invite applications from qualified Medical Practitioners not over fifty years of age for the position of Medical Superintendent of the Meanwood Park Colony. The present accommodation is for 460 mental defectives and building extensions are now in progress which will increase the accommodation to approximately 870 patients of both sexes.
Applicants, who must have held Resident Hospital appointments, should possess a British Diploma in Psychological Medicine, and have had experience in the organisation and administration of a large Colony.
The commencing salary for the post is at the rate of £800 per annum, with a maximum salary of £950 per annum, and house, coal, and light in addition valued at £150 per annum. The salary and the value of the emoluments are subject to the usual deductions for superannuation purposes under the Asylum and Certified Institutions (Officers Pension) Act.
Applications on forms to be obtained from the undersigned with copies of three recent testimonials to be forwarded not later than the 26th June, 1939.
Canvassing in any form, either directly or indirectly, will be a disqualification.

S. WORMALD, Executive Officer.

Mental Health Services Committee,
Offices: 27, Blundell-street, Leeds, 1, 20th May, 1939.

North Devon Infirmary, Barnstaple.
70 Beds (including Maternity Ward).

Wanted, June 20th, duly qualified Sole RESIDENT MEDICAL OFFICER. Salary £150 per annum, with board, apartments, and laundry. Appointment to be for not less than six months.
Applications, stating age, qualifications, with copies of testimonials, to be sent to the Secretary, by Thursday, June 8th.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of SURGICAL REGISTRAR, who will have charge of beds, and who will be responsible for the supervision of the surgical notes of the hospital. The appointment will be for one year in the first instance. The duties will commence as soon as possible after election. The appointment will be a whole-time one, with salary at the rate of £400 per annum, non-resident. Candidates must be Fellows of the Royal College of Surgeons and preferably have held a senior surgical post in a teaching hospital.
Ten copies of applications and testimonials must be sent to the undersigned not later than Saturday, June 10th, 1939.

A. G. E. SANCTUARY, Administrator.

University of Bristol.
LECTURESHIP IN PATHOLOGY.
The University invites applications for a Lectureship in Pathology. Salary £400 to £500 per annum according to qualifications and experience.
Applications should reach the undersigned, from whom further particulars may be obtained, on or before June 21st, 1939.

WINIFRED SHAPLAND, Secretary and Registrar.

County Borough of Swansea.
ASSISTANT MEDICAL OFFICER. Male or Female.
Applications are invited from registered Medical Practitioners under forty years of age for the above-named post.
Resident Hospital, Mental Deficiency, School Medical Service and Maternity and Child Welfare experience is desirable.
The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.
Salary £500, rising by annual increments of £25 to £700.
Application forms may be obtained from the Medical Officer of Health, Public Health Department, Guildhall, Swansea, to whom they should be returned not later than June 19th, 1939.

H. L. LANG-COATH, Town Clerk.

County Borough of Croydon.
JUNIOR RESIDENT ASSISTANT MEDICAL OFFICERS.
Applications are invited from registered Medical Practitioners for the post of Junior Resident Assistant Medical Officer (two appointments) at the MAYDAY HOSPITAL, a general hospital of 585 Beds. The persons appointed will have charge, in one appointment of medical beds, and in the other appointment of surgical beds, and will be required to act as Anæsthetists when necessary. They may also be required, in emergency, to act as Assistant Medical Officers of Health. The appointments are for a period of twelve months.
Salary £300 per annum, with furnished quarters and board at the Hospital.
Applications, must be made on forms to be obtained from the Medical Officer of Health, Town Hall, Croydon, and returned to him, together with copies of three recent testimonials, not later than 11 A.M. on Monday, 12th June, 1939, endorsed "Assistant Medical Officer."

E. TABERNER, Town Clerk.

Town Hall, Croydon, 26th May, 1939.

Worcestershire County Council.

THE WORCESTERSHIRE KING EDWARD VII MEMORIAL SANATORIUM, KNIGHTWICK, Near WORCESTER.

Applications are invited from duly registered Medical Practitioners (Male, single) for the joint appointments of ASSISTANT COUNTY TUBERCULOSIS OFFICER (part-time) and RESIDENT MEDICAL OFFICER of the Sanatorium which has 86 Beds and is administered by a Voluntary Organisation.

The applicant should have had at least three years' experience in the practice of his profession, have spent in general clinical work a period of not less than eighteen months of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases, and have received special training, for a period of not less than six months, in the diagnosis and treatment of tuberculosis.

The Sanatorium is provided with the necessary forms of modern treatment, including X-ray apparatus.

By arrangement with the Worcestershire County Council the Officer appointed as Resident Medical Officer will act as part-time Tuberculosis Officer for the Worcestershire County Council and this work will include attendance at a Dispensary.

The Officer appointed will be responsible to the Chief Tuberculosis Officer both as Resident Medical Officer and as Assistant Tuberculosis Officer.

A separate suite of rooms will be provided at the Sanatorium.

The commencing salary will be at the rate of £450 per annum, rising on satisfactory service by annual increments of £25 to £550 per annum, together with board, lodging, and attendance valued at £150 per annum. A car allowance of £100 per annum will also be paid.

Applications, on forms to be obtained from the Public Health Department, County Buildings, Worcester, must be received not later than the 17th June, 1939.

Canvassing in any form will disqualify.

(Signed) C. H. BIRD,
Clerk of the County Council,
Shirehall, Worcester.

J. P. HOLDER,
Secretary to the Sanatorium,
12, Beech Avenue, Worcester.

Worcester.

City of Plymouth.

CITY GENERAL HOSPITAL. (570 Beds.)

Applications are invited from duly qualified and registered Medical Practitioners for the post of
JUNIOR ASSISTANT MEDICAL OFFICER.

Salary at the rate of £250 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for the period of six months in the first instance, and renewable for a further period of six months, and will be terminable by one month's notice on either side.

The duties of the post will be chiefly on the surgical side of the Hospital.

Further details may be obtained from the Medical Superintendent.

Forms of application may be obtained from the undersigned, and should be forwarded, together with copies of not more than three recent testimonials, not later than Monday, 12th June, 1939.

T. PEIRSON, Medical Officer of Health,
Town Hall, Stonehouse, Plymouth.

The Children's Hospital, Sheffield.

(157 Beds.)

HOUSE PHYSICIAN required immediately. Salary £100 per annum, with board, residence and laundry.

Candidates (Male and unmarried), who must possess registered qualifications, should forward applications, stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Tilbury Hospital, Tilbury, Essex.

(Seamen's Hospital Society.) (92 Beds.)

HOUSE SURGEON (Male) required for six months as from 1st July. Salary £140 per annum, with board, residence and laundry.

Applications, with copies of three testimonials, to be sent in immediately to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

26th May, 1939.

The Royal Portsmouth Hospital,

PORTSMOUTH. (Six Resident Medical Officers.)
(250 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence duty on the 1st July, 1939. Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials, to be sent to the undersigned on or before 12th June, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

Hill End Hospital and Clinic for the

PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS, ST. ALBANS, HERTS.

HOUSE PHYSICIANS (two) required shortly, age not over thirty-five years. Appointment for six months at £165 per annum, with board and quarters, renewable for a further six months at £200 per annum.

The Hospital has 1200 beds, is the County Mental Hospital for Hertfordshire, O.P. department for Psychiatric and Child Guidance treatment. Laboratory, Occupational Therapy, &c.

Preference will be given to candidates who have been accepted for the Tavistock Clinic Course in Psychotherapy and facilities will be given to attend this course.

Application forms and further particulars can be obtained from the Medical Director as above or from the Medical Director, Tavistock Clinic, Malet-place, London, W.C.1.

University of Sydney.

Applications are invited for the University Postgraduate LECTURESHIP IN PATHOLOGY AND DIRECTORSHIP of the PATHOLOGICAL UNIT at PRINCE HENRY HOSPITAL, SYDNEY. Salary £1500 per annum (Australian currency). Duties commence not later than 1st January, 1940. Previous experience in the investigational side of pathology essential.

Applications (six copies) together with medical certificate and recent photograph to be forwarded by 31st August to the Registrar, University of Sydney.

Further particulars from the Secretary, Universities Bureau of the British Empire, 88A, Gower-street, London, W.C.1.

Rotherham Hospital.

(130 Beds.)

CASUALTY HOUSE SURGEON.

Applications are invited from qualified men for the post of Casualty House Surgeon. Duties to commence as soon as possible, will include work in the EAR, NOSE, AND THROAT DEPARTMENT. Excellent experience to be gained in the treatment of fractures. Salary £150 per annum, with full board, residence, and laundry.

Applications, with copies of recent testimonials, should be sent to the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham, Yorks.

Free Eye Hospital, Southampton.

The Committee require the services of a duly qualified HOUSE SURGEON for a period of six months, to commence duty immediately. Salary £150 per annum, with board, residence and laundry.

Post-graduate experience in Ophthalmology is desirable.

Applications, with three recent testimonials, to be sent to the Secretary.

Three Counties Mental Hospital,

ARLESEY, BEDS.

Applications are invited for the post of SENIOR ASSISTANT MEDICAL OFFICER at a salary of £650, rising to £700 by two annual increments of £25.

In the case of a single man, a deduction of approximately £150 will be made for board, lodgings, &c.

Applications, stating age, qualifications, experience, &c., together with copies of three recent testimonials, to be sent to the Medical Superintendent not later than 19th June.

County Borough of Stockport

EDUCATION COMMITTEE.

APPOINTMENT OF SENIOR ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for the post of Senior Assistant School Medical Officer from candidates who possess the necessary qualifications. Salary £700 per annum.

The form of application and a copy of the particulars and conditions of appointment may be obtained from the undersigned. The last date for the receipt of applications is 17th June 1939.

GERALD HOLGATE, Director of Education.
Education Offices, Town Hall, Stockport.

Plymouth Royal Eye Infirmary.

A vacancy in the office of HONORARY SURGEON has occurred in this Institution, and the Committee will fill the vacancy at its next Meeting on Thursday, 6th July.

Candidates must be legally qualified Practitioners and are required to forward their applications (stating age and qualifications), with testimonials, to the Honorary Secretary, at Princess House, Princess-square, Plymouth, on or before Saturday, the 17th June, 1939. Canvassing by intending candidates is not allowed.

R. H. SWEET, Hon. Secretary.

Taunton and Somerset Hospital,

TAUNTON.

A HOUSE PHYSICIAN required June 22nd. Six months' appointment. Two House Surgeons also in residence. Salary at the rate of £125 per annum, with board, residence, and laundry, and the retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

County Borough of Oldham.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the position of Deputy Medical Officer of Health and Assistant Tuberculosis Officer. Applicants must be registered Medical Practitioners and hold a Diploma in Public Health or similar qualification, and also have previous experience in General Medicine, Surgery, and Public Health Work. Special experience in Tuberculosis is essential. The age limit for new entrants to the Corporation service is forty-five.

The successful candidate will also be appointed to the staff of the Education Committee as Deputy School Medical Officer of Health, and will undertake duties in the School Medical Department. He should also have experience of work under the Mental Deficiency Acts and in connexion with Air-Raid Precautions Schemes.

The person appointed will be required to reside in the Borough and to devote the whole of his time to the duties of the office and to perform such duties in connexion with the Public Health and Medical Services of the Council as shall from time to time be determined.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a satisfactory medical examination.

The salary will be an inclusive one and cover all duties, and will commence at £750 per annum and rise by annual increments of £25 to £850 per annum. The person appointed will be required to account for and hand over to the Council all fees and other payments received by him.

The appointment may be determined by three months' notice on either side.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Public Health Department, Town Hall, Oldham, and must be returned, to him, accompanied by copies of three recent testimonials, on or before the 16th June, 1939.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 22nd May, 1939.

Berkshire County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of whole-time Assistant Medical Officer (Female).

The duties will be in connexion with the Maternity and Child Welfare and School Medical Services. The officer will also be required to undertake such other duties as the County and School Medical Officer may, from time to time, assign.

Candidates must, subsequent to qualification, have had at least three years' experience in the practice of their profession, and special experience of practical midwifery and antenatal work. The Diploma in Public Health will be considered an additional recommendation.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination and to produce her birth certificate.

The appointment will be subject to three calendar months' notice on either side.

Forms of applications may be obtained from the undersigned, and should be returned by first post on 17th June, 1939, together with copies of three testimonials.

Canvassing members of the Council will disqualify.

H. J. C. NEOBARD, Clerk of the County Council.

Shire Hall, Reading, 22nd May, 1939.

City and County of Canterbury.

MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

The County Borough Council invite applications from duly registered Medical Practitioners of not more than thirty-five years of age, holding a Diploma in Public Health and possessing Municipal or Local Government experience, for the appointment of Medical Officer of Health and School Medical Officer.

The candidate appointed will be required to devote his whole time to the service of the Council and must reside within the city.

The initial inclusive salary will be £800 per annum, rising by annual increments of £25 to a maximum of £900 per annum. An allowance of £40 per annum will be made in respect of the use of a car.

The appointment will be made subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The Council will provide offices and staff.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, must be sent (in envelopes endorsed "Medical Officer") so as to reach me not later than the 10th June, 1939.

Thirty copies of the application and testimonials should also be forwarded for the use of the Members of the Council.

Canvassing in any form is strictly prohibited and will disqualify.

G. W. MARKS, Town Clerk.

Town Clerk's Office, Municipal Buildings, Canterbury.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (564 Beds.)

APPOINTMENT OF RESIDENT ASSISTANT OBSTETRICIAN.

Applications are invited for the appointment of Resident Assistant Obstetrician at the Kingston County Hospital. Candidates must have held resident hospital appointments, and should preferably possess a higher Surgical and/or Midwifery qualification.

The tenure of the appointment is limited to a period of five years, but the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The salary is at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with full residential emoluments valued at £125 per annum (the officer appointed may be required to be non-resident, in which case the value of the emoluments less deductions for meals supplied will be paid in cash).

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so that he may receive them not later than the 9th June, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 26th May, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (564 Beds.)

APPOINTMENT OF RESIDENT ASSISTANT PHYSICIAN.

Applications are invited for the appointment of Resident Assistant Physician at the Kingston County Hospital. Candidates must have held resident hospital appointments, and should preferably possess a Higher Medical qualification.

The tenure of the appointment is limited to a period of five years, but the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The salary is at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with full residential emoluments valued at £125 per annum. (The Officer appointed may be required to be non-resident, in which case the value of the emoluments less deductions for meals supplied will be paid in cash.)

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so that he may receive them not later than the 9th June, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 26th May, 1939.

Assam Medical Research Society,

SHILLONG, ASSAM, INDIA.

Applications are invited for the post of a RESEARCH OFFICER with special reference to Malaria.

Candidates should state their qualifications and previous experience. Experience with labour forces in rural conditions in India will be considered an additional recommendation.

Salary Rs. 1000/- per mensem, plus travelling allowances as a first-grade officer under the Assam Subsidiary Rules. Leave will be granted in accordance with the Fundamental Rules and Assam Subsidiary Rules.

The appointment will be for eight months in the first instance, renewable annually, provided the post is continued and subject to satisfactory service.

The appointment may be terminated by one month's notice on either side. Applications to be lodged by the 30th June, 1939, with the Honorary Secretary, Assam Medical Research Society, Pasteur Institute, Shillong, from whom further particulars may be obtained.

The University of Manchester

and

MANCHESTER ROYAL INFIRMARY.

DEPARTMENT OF CLINICAL INVESTIGATIONS AND RESEARCH.

ASSISTANT DIRECTOR.

Applications are invited for the post of Assistant Director in the Department of Clinical Investigations and Research at the Manchester Royal Infirmary.

The person appointed will be required to assist the Director and deputise for him in his absence and to assist in the Department Clinics. These duties will occupy about half the Assistant Director's time. In the other half of his time he will be expected to carry out research.

The appointment in the first place will be for one year renewable annually for three years.

Commencing salary, £400 per annum.

Candidates must have a registrable medical qualification.

Applications, with the names of two referees, to be sent to the Registrar, The University, Manchester, 13, on or before June 9th, 1939.

Huddersfield Royal Infirmary.
(321 Beds.)

Two Male HOUSE SURGEONS required to commence duty on 6th July and 1st August, respectively.

Salary £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal at the discretion of the Board of Management.

The Hospital is officially recognised for the surgical practice required of non-members before admission to the Final Fellowship Examination of one of the Royal Colleges of Surgeons of England.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary.
(321 Beds.)

Male HOUSE SURGEON required to be attached to the ABNORMAL MATERNITY DEPARTMENT. Duties, which include the administration of anæsthetics, to commence on 1st August, 1939. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period, at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. Firth Auxiliary, Norton.

Applications are invited from registered Medical Practitioners for the post of RESIDENT MEDICAL OFFICER.

The appointment will be for six months, commencing 1st July, 1939, subject to renewal for a further six months, with salary at the rate of £150 per annum, plus board, residence, and laundry.

Previous Obstetrical experience is desirable.

The Firth Auxiliary Hospital contains forty-seven beds, of which twenty-three are set apart for the treatment of Puerperal Sepsis, the remainder being for Antenatal and Gynæcological cases.

Applications should be lodged with the undersigned, addressed to the Jessop Hospital for Women, Sheffield, immediately.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)

The Board of Management invite applications for the post of SENIOR RESIDENT OFFICER (Male), unmarried.

The appointment is for six months, in the first instance, from 1st July, 1939.

Salary £150 per annum, plus board, residence, and laundry.

Previous resident experience essential.

The duties include charge of the Maternity Department, thirty-six Beds, and general supervision of the Gynæcological Department.

Applications, stating age and experience, with copies of recent testimonials, should be forwarded immediately to the undersigned.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)

The Board of Management invite applications for posts of HOUSE SURGEONS (Male), unmarried, for a period of six months, commencing 1st July, 1939.

Salary £100 per annum, together with board, residence, and laundry.

Applications, stating age, together with copies of testimonials should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

The Jessop Hospital for Women,
SHEFFIELD. (151 Beds.)
GYNÆCOLOGICAL AND MATERNITY DEPARTMENTS.

The Board of Management invite applications for the post of REGISTRAR and OBSTETRICAL TUTOR (full-time). The duties include Antenatal work and teaching of students. Preference may be given to candidates with F.R.C.S. (Eng.) or (Ed.) and M.R.C.O.G.

Salary £250 per annum, with board, lodging, telephone, and certain other extras. The appointment will be for one year subject to reappointment for a second year, and will be terminable by three months' notice on either side at any time.

Applications, with copies of recent testimonials, should be addressed to the undersigned as soon as possible.

DAVID OSWALD, Superintendent and Secretary.

York County Hospital.
(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M., on Monday, 5th June, 1939.

J. R. MACKRILL, Secretary.

Cornwall County Council.

DEPUTY COUNTY MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners qualified in Public Health, Sanitary Science or State Medicine for the appointment of a Deputy County Medical Officer at an inclusive salary of £720 a year, with travelling allowance on the County Scale.

The officer appointed will work under the supervision of the County Medical Officer, and his duties will be to assist him in connexion with all matters arising in the Public Health Department. Preference will be given to applicants who have attended a Post-graduate Course in mental deficiency, or have experience in the certification of mental defectives.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, should reach the County Medical Officer, County Hall, Truro, by Tuesday, 13th June.

T. A. H. SHEERS, Clerk of the County Council.

County Hall, Truro, 19th May, 1939.

The Kidderminster and District General
HOSPITAL. (145 Beds.)

Applications are invited for the following :—

SENIOR HOUSE SURGEON (Male). Salary £150 per annum. To start duties on 10th July.

JUNIOR HOUSE SURGEON (Male). Salary £100 per annum. To start duties on 16th August.

Residence, board, and laundry are provided in each case.

Each appointment will be for six months.

Applications, with not more than three testimonials, should be sent immediately to the undersigned.

C. M. SMITH, House Governor and Secretary.

City Hospital, Chester.

JUNIOR RESIDENT MEDICAL OFFICER required for the above hospital, which is a general hospital of 200 Beds with full visiting staff. Salary will be £150 per annum, plus full residential emoluments. The appointment will be for six months only and will be terminable at any time by one month's notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be sent to the Medical Officer of Health, Town Hall, Chester, by Wednesday, 14th June, 1939.

G. BURKINSHAW, Town Clerk.

Berkshire Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Men for the above-mentioned appointment.

The person appointed will be required to carry out, under the direction of the County and School Medical Officer, the medical inspection of children in public elementary and secondary schools and such other work as may, from time to time, be prescribed. He will be required to devote his whole time to the duties.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to undergo a medical examination and to produce satisfactory evidence as to age.

The appointment will be subject to three calendar months' notice on either side.

Forms of application may be obtained from the undersigned, and should be returned by first post on 17th June, 1939, together with copies of three testimonials.

W. F. HERBERT, Education Secretary.

Shire Hall, Reading, 23rd May, 1939.

The Robert Jones and Agnes Hunt
ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 240. Children 120.)

HOUSE SURGEON (Male) required to commence July 1st. Appointment for six months, with possibility of extension. Salary at the rate of £200 per annum, with board, residence, and laundry. Two weeks' holiday for each six months' service.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, to be addressed to the Secretary-Superintendent, and to reach him not later than June 10th, 1939.

Manchester Royal Infirmary.

CHIEF ASSISTANT TO A SURGICAL UNIT
(Non-resident).

The Board of Management invite applications for the above appointment.

Candidates should be Fellows of the Royal College of Surgeons of England.

The duties require attendance at the Infirmary on seven half days per week. The appointment is for one year, renewable for a further period, subject to the provisions of the by-laws as to notice. Salary £250 per annum.

Further information may be obtained from the undersigned, to whom applicants must send fifteen copies of their application and fifteen copies of testimonials by Thursday, 15th June, 1939.

By order.

F. J. CABLE, General Superintendent and Secretary.

19th May, 1939.

County of Kent.

URBAN DISTRICT OF SITTINGBOURNE AND MILTON

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from fully qualified Medical Practitioners with experience in Public Health duties and holding a diploma in Sanitary Science, Public Health or State Medicine for the post of Medical Officer of Health of the Sittingbourne and Milton Urban District. Population 23,000 (estimated). Area, 4935 acres.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health under relevant Acts and Orders, and to carry out such other appropriate duties as the Council may with the consent of the Ministry of Health (where necessary) from time to time direct. It is intended if circumstances permit that he should also be appointed by the appropriate authorities to act as :—

(a) Assistant County Medical Officer of Health under the direction of the County Medical Officer and will be required to perform such County Council duties as he may from time to time prescribe. These duties will, in the first place, be in connexion with the School Medical Services in the Urban District.

(b) Medical Officer for the administrative control of the Infectious Diseases Hospital at Keycol Hill, near Sittingbourne, belonging to the Sittingbourne and Milton Joint Hospital Board.

The appointment of Medical Officer of Health is subject to the provisions of the Local Government Act, 1933, and the Sanitary Officers' (Outside London) Regulations, 1935. The appointment of Assistant County Medical Officer is subject to the approval of the Board of Education.

The person appointed must reside within the Urban District, must not engage in private practice, and must devote his whole time to the duties of the before-mentioned posts.

The posts are superannuable and the successful candidate will be required to pass a medical examination.

The total salary in respect of all the above-mentioned appointments will be at the rate of £800 per annum, increasing by £50 per annum to a maximum of £900, with necessary travelling expenses in addition.

A list of the duties and form of application will be supplied on application to the undersigned.

Canvassing, either directly or indirectly, will be a disqualification.

Applications on the prescribed form accompanied by not more than three recent testimonials and endorsed "Appointment of Medical Officer of Health" must be delivered to the undersigned on or before the 8th day of June, 1939.

G. H. POTTER, Clerk to the Council.

Town Hall, Sittingbourne, 22nd May, 1939.

Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).

Wanted, a CASUALTY OFFICER, also in charge of Fracture Clinic (Male, unmarried). Candidates must be duly qualified and registered. The appointment will be for a period ending 31st October, 1939, followed by promotion to Second House Surgeon if suitable. Salary, including all services required in connexion with Paying Patients' Ward, £150 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer, House Physician, two House Surgeons, and Casualty Officer. The Hospital contains Maternity, and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned, to whom applications, stating age, and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary.

22nd May, 1939.

Doncaster Royal Infirmary.

(185 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EAR, NOSE, AND THROAT and OPHTHALMIC DEPARTMENTS and RESIDENT ANÆSTHETIST.

The appointment is for six months.

Salary at the rate of £150 per annum, with the usual emoluments.

Applications, accompanied by copies of three recent testimonials, should be forwarded to the undersigned immediately.

R. LANCASTER, Secretary-Superintendent.

Royal Buckinghamshire Hospital,

AYLESBURY. (115 Beds.)

Applications are invited for the post of

SECOND RESIDENT MEDICAL OFFICER (Male),

for six months beginning 1st July, 1939.

Salary £150 per annum, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London Consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Tuesday, 20th June, 1939.

Applications must reach the undersigned by Monday, 12th June, 1939.

F. G. DAWES, Secretary.

Borough of Dover.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND PORT MEDICAL OFFICER.

Applications are invited from duly qualified persons for the appointment of Medical Officer of Health of the Borough and Medical Officer to the Dover Port Health Authority, at an inclusive salary of £900 per annum, rising by three annual increments of £100, to a maximum of £1200 per annum, plus a travelling allowance of £15 per annum in respect of the use of his own motor car in the execution of the duties of the office. Office accommodation and clerical assistance are provided by the Corporation.

Candidates must be duly qualified Medical Practitioners and hold a Diploma in Sanitary Science, Public Health or State Medicine. The successful candidate will be required to devote his whole time to the service of the Corporation, and will not be permitted to engage in private practice.

The appointment will be subject to the provisions of Section 110 of the Local Government Act, 1933, and Part III of the Sanitary Officers (Outside London) Regulations, 1935. The post is an established one under the Local Government Superannuation Act, 1937, and the person selected for appointment will be required to pass a medical examination, and to commence his duties not later than the 1st December next.

Full particulars of the duties and conditions of the appointment, together with a form of application may be obtained from me, on receipt of a stamped and addressed envelope, and applications, on the appropriate form, accompanied by copies of not more than three recent testimonials, must be forwarded in an envelope endorsed "Medical Officer of Health" to reach me not later than Tuesday, the 27th June, 1939.

Canvassing members of the Town Council or Corporation Officers, either directly or indirectly, will be a disqualification.

S. R. H. LOXTON, Town Clerk.

Town Clerk's Office, Brook House, Dover, 1st June, 1939.

Borough of Stourbridge,

WORCESTERSHIRE.

NORTH WORCESTERSHIRE JOINT ISOLATION HOSPITAL BOARD.

Applications are invited from registered Medical Practitioners holding a diploma in Public Health for the appointments of :

(1) MEDICAL OFFICER OF HEALTH for the BOROUGH OF STOURBRIDGE (population estimated 35,000) ; and

(2) MEDICAL OFFICER to the NORTH WORCESTERSHIRE JOINT ISOLATION HOSPITAL at Hayley Green (this is at present a non-resident appointment).

The duties of the appointed officer will include all ordinary administrative duties undertaken by a Medical Officer of Health for the Stourbridge Borough Council and responsibility for the treatment of infectious cases admitted to the Infectious Diseases Hospital maintained by the Joint Board.

The combined salary will be £800 per annum (Stourbridge Borough £400, Joint Hospital Board £400), and the person appointed will be required to pass a medical examination and to contribute to the superannuation funds of the two authorities ; a car allowance of £60 per annum will also be payable.

The appointed officer will be required to reside in or near the Borough of Stourbridge. The appointment may be determined by either the appointed officer or the employing authorities giving three months' notice.

Applications (on forms to be obtained from the County Medical Officer, County Buildings, Worcester), accompanied by not more than three recent testimonials, should be received at the same office, marked "Stourbridge Joint Appointment," by not later than 12 noon on Wednesday, 21st June, 1939.

(Signed) GEOFFREY INCE, Town Clerk.
F. H. GROVE,
Clerk to the North Worcestershire Joint Hospital Board (O.I.).

Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications from Gentlemen for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £200 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary, endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

Royal Salop Infirmary, Shrewsbury.

(156 Beds.)
(Enlarging to 226 Beds.)

APPOINTMENT OF RESIDENT SURGICAL OFFICER.

Applications are invited from fully qualified Men for the appointment of Resident Surgical Officer vacant immediately.

The appointment is for a period of twelve months, at a salary of £250 per annum, with board, residence, &c.

The resident Surgical Officer is Senior Resident Officer to the Hospital.

House Staff comprises House Physician and two House Surgeons.

Applications, stating age, qualifications, experience, nationality, and accompanied by copies of three recent testimonials, to be sent to the undersigned immediately.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 25th May, 1939.

Redlands Hospital for Women,
GLASGOW, W.2.

Applications are invited from qualified Medical Women for the post of JUNIOR ASSISTANT (Visiting) in the DEPARTMENT OF GENERAL SURGERY.

For particulars, apply to the Medical Secretary at the Hospital.

Hertfordshire County Council.
MATERNITY AND CHILD WELFARE.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER for Maternity and Child Welfare work in the County of Hertford. Applicants must be registered Medical Practitioners, and have had special experience in Maternity and Child Welfare and Ante-natal work, and have had at least three years' experience in the practice of their profession.

Commencing salary £500 per annum, rising by annual increments of £25 to a maximum of £700 per annum.

The post is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will have to pass a medical examination.

The officer appointed should possess a car, for the use of which a mileage allowance according to the County Scale will be paid.

Particulars of experience, age, qualifications, and copies of three recent testimonials should be sent to the Clerk of the County Council, Clerk of the Peace Office, Hertford, not later than Saturday, the 24th June, 1939.

ELTON LONGMORE, Clerk of the County Council.

Hertford, June, 1939.

Royal Infirmary, Blackburn.
(244 Beds. 5 Residents.)

RESIDENT HOUSE SURGEON (Male) required at a salary of £175 per annum with board, residence, laundry, &c.

Applications with copies of testimonials, stating age, nationality, experience, &c., to be sent to the undersigned as early as possible.

T. DEWHURST,
General Superintendent and Secretary.

Royal Infirmary, Blackburn.

This Institution is recognised for the surgical practice required for the F.R.C.S. examination.

Cheltenham General and Eye Hospitals.
(176 Beds. 4 Residents.)
Recognised for the F.R.C.S., D.L.O. and D.O.M.S. Examinations.

The Board of Management invite applications for the post of HOUSE PHYSICIAN (Male) at the General Hospital, vacant 1st July.

Candidates must be unmarried, have a registered qualification in Medicine and Surgery, and produce evidence that they are qualified to administer anæsthetics.

Salary £150 per annum, with board, lodging, and laundry.

Applications, with copies of testimonials, to be sent in sealed envelopes marked "House Physician" to the undersigned as soon as possible.

J. CUMMING SMITH, F.C.I.S., F.H.O.A., Secretary.

The General Hospital, Cheltenham, 31st May, 1939.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE PHYSICIAN. The appointment will be for six months from July 1st, 1939, but is terminable at an earlier date by one month's written notice on either side. Salary at the rate of £130 per annum with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four, testimonials, to the undersigned on or before Wednesday, June 14th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

Christie Hospital and Holt Radium
INSTITUTE, MANCHESTER.

TRAINING IN RADIOTHERAPY—CLINICAL ASSISTANTSHIPS.

The above Institution offers two Clinical Assistantships (unsalaried) to selected Candidates desirous of obtaining experience in radium and X-ray therapy.

The appointees will be expected to remain for a period of not less than four months on a whole-time basis and must have had either previous surgical experience or hold a diploma in radiology.

Registration fee £1 1s. per month.

Certificates will be granted on completion of the course from the Faculty of Medicine of the Manchester University.

The appointments offer an unusually good opportunity of gaining experience in all branches of modern radiotherapy.

Caernarvonshire and Anglesey
INFIRMARY, BANGOR.
(General Hospital.)

Wanted a Male SENIOR and a JUNIOR HOUSE SURGEON. Salaries respectively £170 and £120 per annum, with residence, board, and laundry. Duties to commence July 1st.

Applications, stating age, qualifications, and nationality to reach the Secretary not later than June the 6th. Good opportunity for Medical and Surgical experience.

Warwickshire and Coventry Mental
HOSPITAL, HATTON, Near WARWICK.

DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the post of Deputy Medical Superintendent at the above Hospital. Salary £650 per annum, rising to £750 by four annual increments of £25, together with emoluments value £150 per annum.

Applications, together with three testimonials, to be sent to the Medical Superintendent, Hatton, near Warwick, by June 20th.

Western Infirmary of Glasgow.
(Incorporated.)

The Managers invite applications for a
FULL-TIME ASSISTANT RADIOLOGIST.

The salary is £400 per annum, and candidates are requested to lodge with the subscriber, on or before June 21st, 1939, seventeen applications, with copies of at least two testimonials with each application.

Canvassing not permitted.

J. MATHESON JOHNSTON, Secretary and Treasurer.

87, Union-street, Glasgow.

Royal East Sussex Hospital, Hastings.

Applications are invited for the post of JUNIOR HOUSE SURGEON (Female) vacant 1st July, 1939. The appointment is for a period of six months. Salary at the rate of £150 per annum with board-residence.

Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary by June 19th.

WILFRID G. KEMSLEY.

Stirling District Mental Hospital,
LARBERT.

ASSISTANT MEDICAL OFFICER—Lady—(Clinical Pathologist) required. Well equipped laboratory and facilities given for research work. Salary commencing at £250 per annum, rising by annual increments of £25 to £350, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age, with particulars as to experience in laboratory work, and testimonials, to the Medical Superintendent.

City of Manchester.
CRUMPSALL HOSPITAL. (1400 Beds.)
(Recognised under the regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry, in addition, subject to the Manchester Corporation conditions of service. The duties of the appointment are mainly of a medical nature.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than June 17th, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 30th May, 1939.

County Council of the West Riding
OF YORKSHIRE.

SCALEBOR PARK MENTAL HOSPITAL.

The Visiting Committee of the Scalebor Park Mental Hospital invite applications for the appointment of an ASSISTANT MEDICAL OFFICER at the Scalebor Park Mental Hospital for private patients at a salary of £400 per annum, rising by annual increments of £25 to £500 per annum, with board and residence at the Hospital with an additional £50 for the D.P.M. or M.D. in Psychological Medicine (London).

Further particulars and form of application may be had from the undersigned, by whom all applications, together with copies of not more than three recent testimonials, must be received not later than the 12th June, 1939.

J. CHARLES MCGRATH, Clerk to the Visiting Committee.

County Hall, Wakefield, May, 1939.

Royal Berkshire Hospital, Reading.
(338 Beds.)

Applications are invited for the following resident appointments which fall vacant on August 1st, 1939:—

One HOUSE SURGEON (Male).
One HOUSE SURGEON to the SPECIAL DEPARTMENTS (Eye, Ear, Nose and Throat) (Male).
One CASUALTY OFFICER (Male).

The appointments are for six months, and candidates must be fully qualified and registered. Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned.

H. E. RYAN, Secretary and House Governor.

Warwickshire Voluntary Hospitals COUNCIL.

APPOINTMENT OF HONORARY VISITING PHYSICIAN TO THE COVENTRY AND WARWICKSHIRE HOSPITAL.

Applications are invited for the above appointment. Candidates must have obtained the Degree of Doctor of Medicine at one of the Universities of the United Kingdom or shall be a Fellow or Member of the Royal College of Physicians of London or Edinburgh. The person appointed will be required to practise exclusively as a Consultant in Medicine. Full details of the appointment may be obtained from the Honorary Secretary, Warwickshire Voluntary Hospitals Council, House Governor's Office, Coventry and Warwickshire Hospital.

Applications, stating age, particulars of medical training, qualifications, and experience, and accompanied by not more than four testimonials, must be received not later than Monday, June 19th.

Kent County Mental Hospital, CHARTHAM, near CANTERBURY.

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Forms of application can be obtained from the Medical Superintendent.

Kent and Sussex Hospital, TUNBRIDGE WELLS. (210 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Salary £250 per annum, with board, residence, and laundry, in the Hospital.

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Applications, stating qualifications and experience, together with certificate of registration and copies of not more than three recent testimonials, should be sent to the undersigned not later than 5th June, 1939. Duties to commence 21st June, 1939. The appointment will be for twelve months.

TOM B. HARRISON, Superintendent-Secretary.

23rd May, 1939.

North Staffordshire Royal Infirmary, STOKE-ON-TRENT. (410 Beds.)

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23rd May, 1939.

General Hospital, Nottingham. (389 Beds.)

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HENRY M. STANLEY, House Governor and Secretary.

The Duchess of York Hospital for BABIES, MANCHESTER. (80 Beds.)

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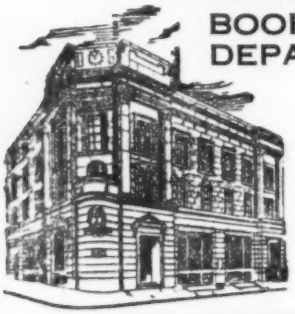

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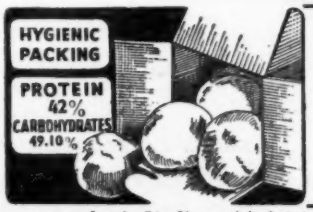

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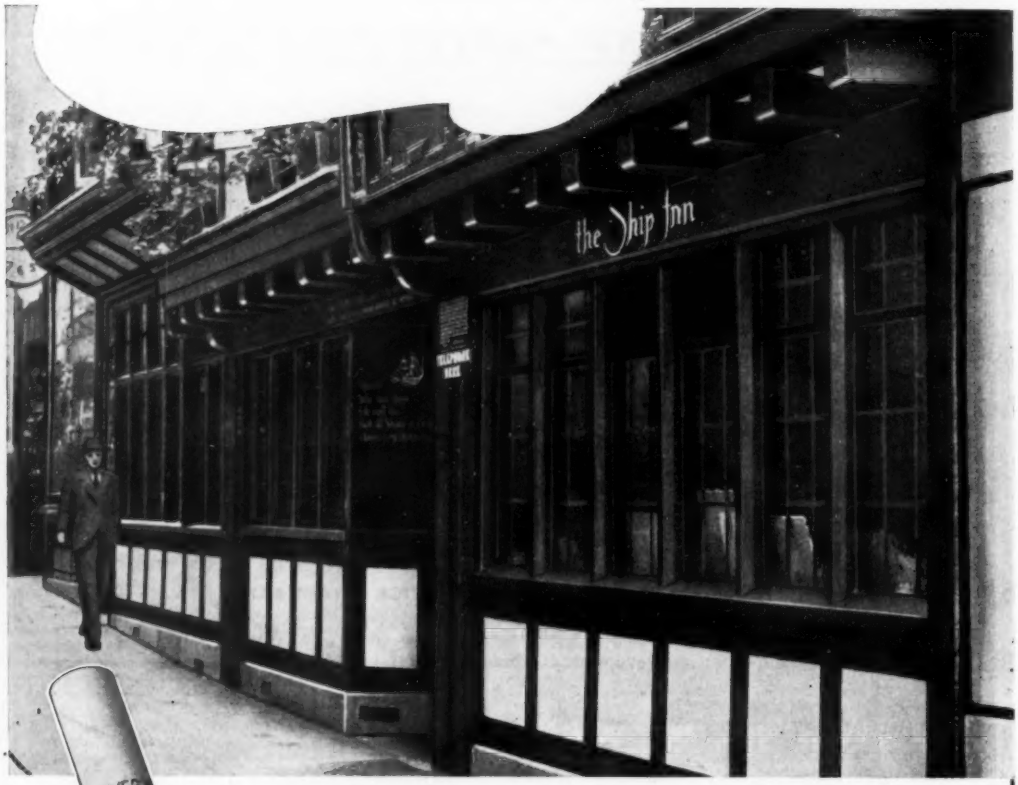

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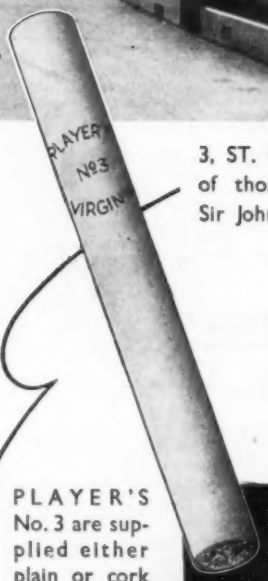

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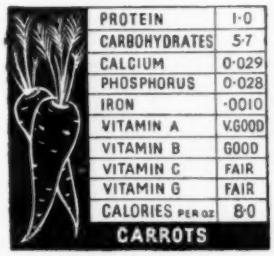

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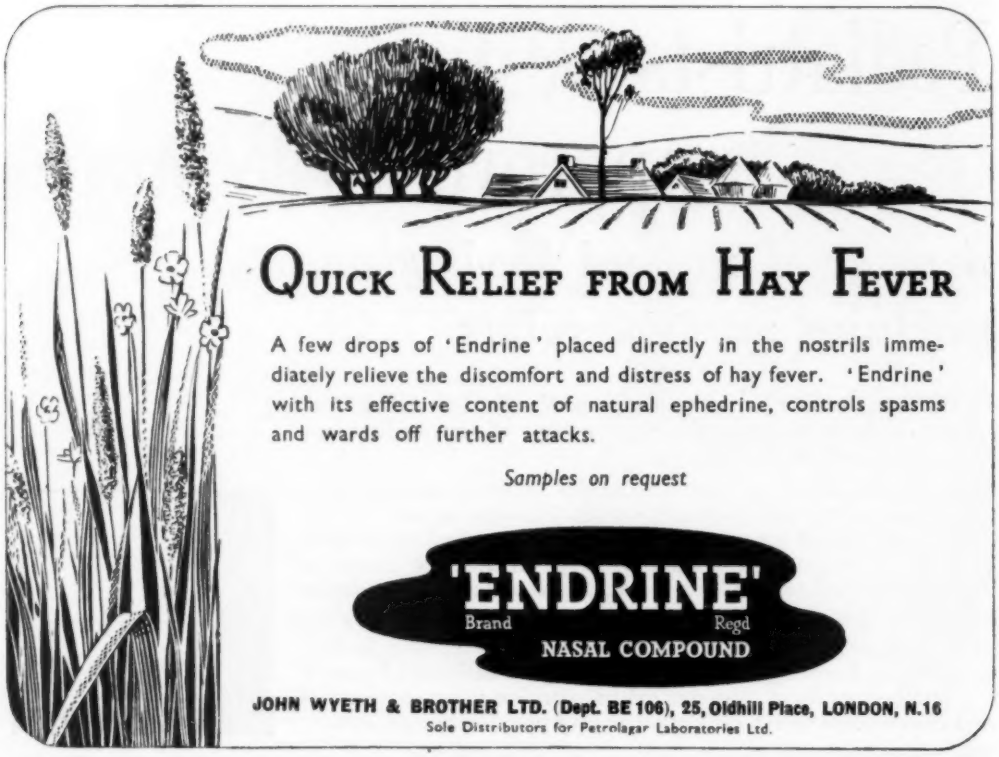

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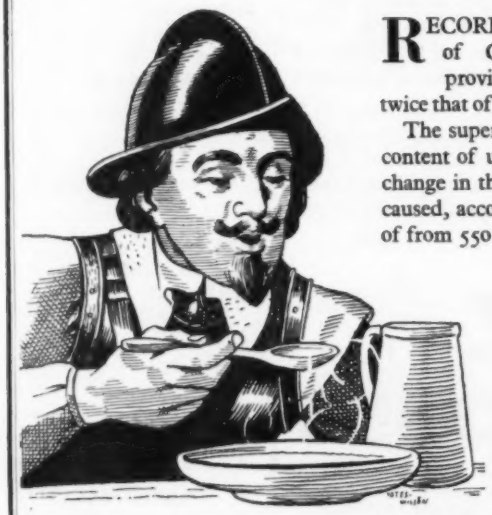

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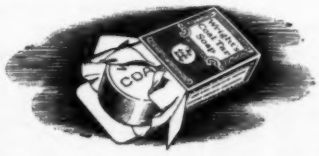

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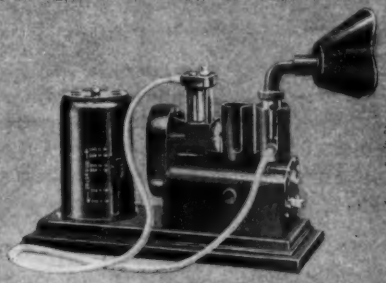

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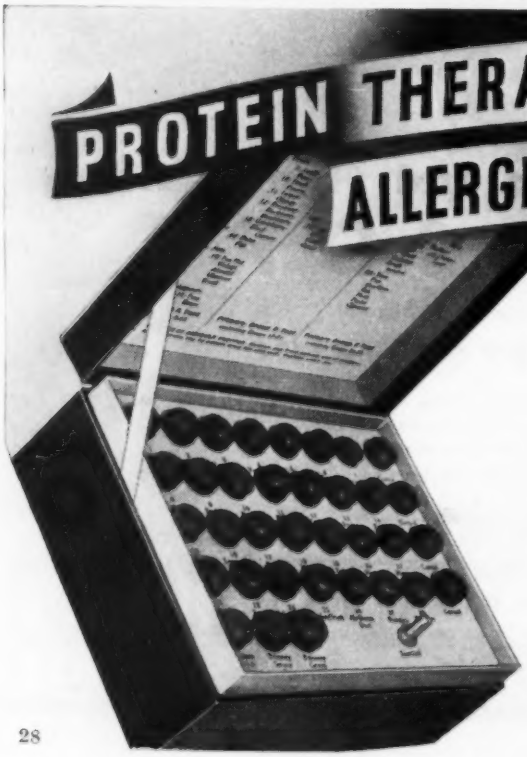

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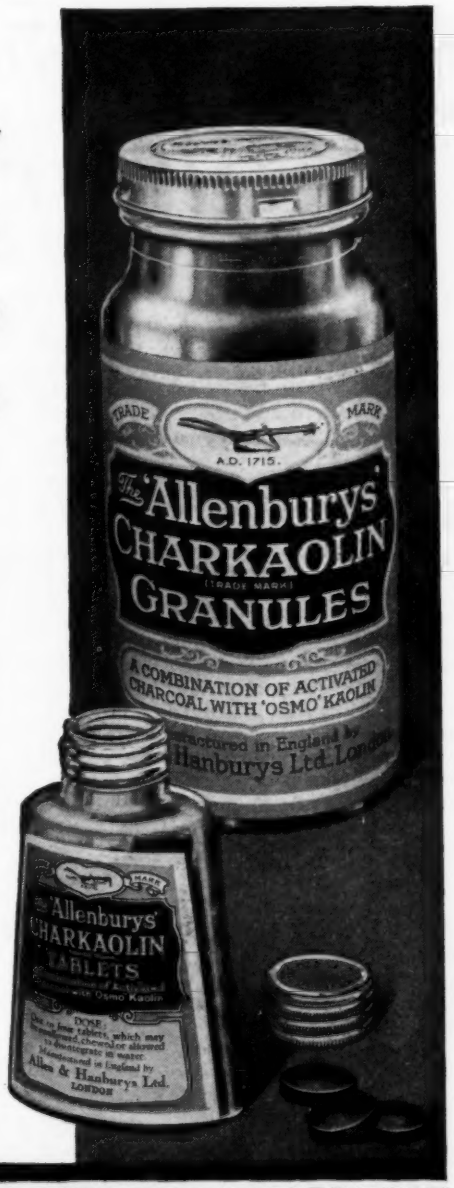

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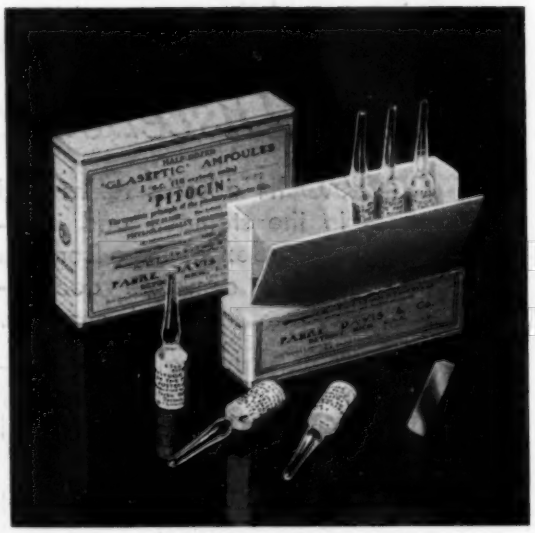

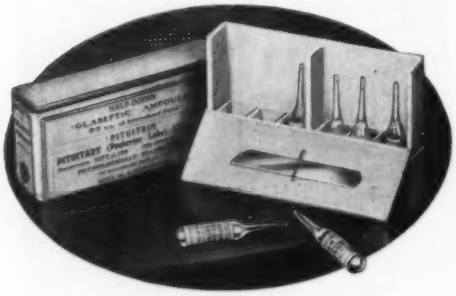

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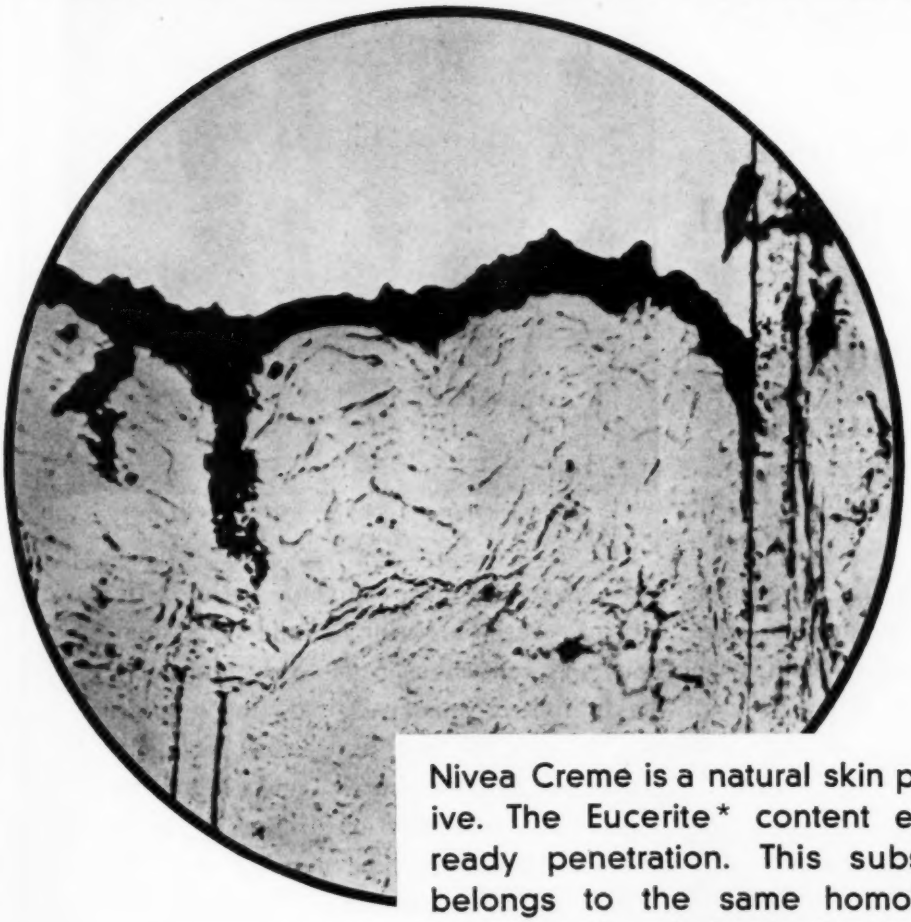

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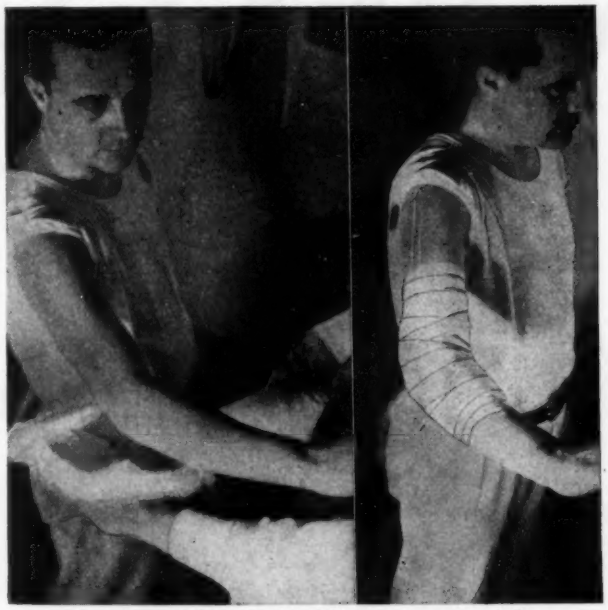

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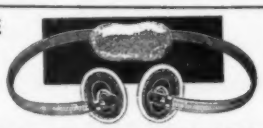

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UNIVERSITY OF LONDON

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If testimonials are submitted, one copy only of each is required. In no case should original testimonials be submitted. If more than one Examinership is applied for, a separate and complete application must be forwarded in respect of each Examinership. The appointments will be made by the Senate in November. Applicants who desire that the result should be communicated to them are requested to enclose a stamped and addressed envelope with their application.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

THE RESIDENTIAL TREATMENT OF ALCOHOLISM & DRUG ADDICTION

RENDLESHAM HALL (Postal Address), WOODBRIDGE, SUFFOLK

RENDLESHAM HALL, which is open to receive patients, is essentially a Sanatorium. Its daily life and routine are that of an ordinary comfortable holiday or health resort, or of a large country house. Each patient has all the privileges of a guest consistent with the prescribed medical treatment.

Rendlesham Hall has 45 Bedrooms, and about 450 acres of Gardens and Park. It has also a private Nine-hole Golf Course, Tennis and Croquet Lawns, and Bowling Green.

Illustrated Booklet, giving particulars as to terms, etc., can be had on application to

THE RESIDENT MEDICAL SUPERINTENDENT

Telegrams and Telephone: WICKHAM MARKET 216. (Toll Call from London.) *Proprietors:* THE HORWOOD SANATORIUM, LIMITED.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction.

Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

Fully equipped gymnasium and indoor swimming pool under qualified instructors. Facilities under special recreational therapists for all indoor and outdoor games, including squash, badminton, table tennis, golf, cricket, football, hockey, lawn tennis, croquet, and bowling. The hospital has its own Church, Library, Cinema, and Café.

The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* **Dumfries 1119.**

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344: or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4. *'Phone:* CITY 4697.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Sheck and also modified Insulin Therapy.**

Senior Physician: DR. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—

Dr. ERNEST ROLLINS, Resident Physician.

Tel.: Amherst 1642.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:

1st Class (men only) from £5 5s. p.w. upwards.

2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20, Exchange St. East, Liverpool

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

CHISWICK HOUSE.

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FIVE GUINEAS PER WEEK.

For further particulars apply to the Medical Director W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

EPPING HOUSE

LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply,* J. C. BAKER, M.B.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.
Climate healthy and bracing.
Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,**
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

STRETTON HOUSE,

Church Stretton, Shropshire.
ESTABLISHED IN 1853.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

RUSSELLS

Hemel Hempstead Road,
WATFORD
Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.
Apply: RESIDENT MEDICAL OFFICER.

CLARENCE LODGE

CLAPHAM PARK, LONDON
Situated in 3½ acres of secluded gardens
HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply
MISS THWAITES.

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45.

DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN — SWITZERLAND

for Nervous and Mental cases
as well as all kinds of addiction
(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER
Prospectus on application to the Management

THE RETREAT, YORK

The Pioneer Hospital for the humane treatment of those suffering from Nervous and Mental Disorders, opened 1796.

This Hospital, administered by a Committee of the Society of Friends, combines what is best in the newer methods of investigation and treatment of nervous and mental illness with a sympathetic and friendly atmosphere.

The hospital, of 200 beds, admitted last year 110 patients, of whom 79 entered on a voluntary basis. It cannot be too widely known that much curative work is accomplished in modern mental hospitals today, and it is not generally appreciated that the recovery rate compares very favourably with that of General Hospitals.

For information and terms of admission, apply to
THE PHYSICIAN SUPERINTENDENT
Dr. Arthur Pool.

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

Sunnyside

Delightfully situated at the foot of the South Downs. Specially caters for patients convalescent or requiring a restful holiday, combined with facilities for treatment by Massage, Foam and other baths, Electrical (including ultra-short wave diathermy) and other physical methods. Electric lift. Medical Practitioners cordially invited to visit

Brochure from Physician in Charge.

Restorium

HASSOCKS - - SUSSEX 'Phone 103

(in association with fully licensed Downs Hotel)

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

KINMEL HALL Rheuma Spa

Modern Spa Treatments, Including Continental Fiscany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*

ABERGELE - NORTH WALES

Royal Masonic Hospital,

Ravenscourt Park, London, W.6.

RESIDENT SURGICAL OFFICER (Male) required. Duties to commence 1st July, 1939. Salary at the rate of £250 per annum, with board, residence, and laundry. The appointment is for six months. Candidates must be registered, and must have held resident appointments in General Hospitals. Masonic qualifications unessential.

The Institution (145 beds at present, but to be increased) is primarily for Paying Patients of both sexes of moderate means, usually unable to afford ordinary Nursing Home Treatment, &c.

Applications, stating full particulars, to be sent on or before Wednesday, 14th June, 1939, to the Honorary Secretaries, from whom further information may be obtained.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Candidates must be registered Medical Practitioners of at least two years' standing and have held at least two previous house appointments. Preference will be given to candidates experienced in practical operative surgery.

The appointment is for one year from 9th August, 1939. Particulars concerning remuneration and emoluments (amounting to approximately £370 with board and residence), together with the necessary forms of application and rules, can be obtained from the undersigned.

Applications, with copies of testimonials, should be sent on or before June 16th to

GILBERT G. PANTER, Secretary.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society.)

Half-time non-resident RECEIVING ROOM OFFICER required for six months as from 1st July. Morning or afternoon sessions with alternate Saturdays 9 A.M. to 12 noon. Previous experience in resident posts essential. The post is suitable for those studying for higher examinations. Salary at the rate of £150 per annum with meals.

Applications, stating age, nationality and experience of House appointments, accompanied by copies of testimonials, to be sent in immediately to the undersigned.

F. A. LYON, Secretary, Seamen's Hospital Society.

24th May, 1939.

London County Council.

Applications invited for a full-time permanent position of ASSISTANT MEDICAL OFFICER, chiefly in connexion with the Council's school medical work. Special experience of the medical examination of children is essential. Salary £600 by £25 to £750.

Forms of application (stamped addressed foolscap envelope necessary) may be obtained from the Medical Officer of Health (S.D.5), The County Hall, Westminster Bridge, S.E.1, and must be returned by 17th June. Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for position of ASSISTANT MEDICAL OFFICER (Class I) at QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON, SURREY (1284 Beds) with special departments for rheumatic and orthopædic conditions, congenital malformations and nutritional diseases. Salary £350–£25–£425, with board, lodging, and washing. Experience in a resident appointment in a general hospital for at least six months desirable. Married quarters not available.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, (Staff Division 2), County Hall, S.E.1, returnable by 19th June.

Canvassing disqualifies.

London County Council.

Applications invited from MEDICAL PRACTITIONERS of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) BETHNAL GREEN HOSPITAL, Cambridge-road, E.2.—(Two positions).—(1) Surgical duties. (2) General duties, gynæcological and obstetric experience desirable.

(*b*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12.—Obstetric and gynecological duties.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

*(*c*) HACKNEY HOSPITAL, Homerton High-street, E.9.—(Two position).—(1) Medical duties, casualty department and anæsthetics. (2) Medical duties.

*(*d*) QUEEN MARY'S HOSPITAL, Sidcup, Kent.—Duties mainly medical (male convalescent hospital). Surgical experience desirable.

* No accommodation for a woman.

(*e*) ST. PANCRAS HOSPITAL, 4, St. Pancras Way, N.W.1.—Duties mainly medical, experience in anæsthetics desirable.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 2), County Hall, S.E.1, returnable by 26th June.

Canvassing disqualifies.

West London Hospital.

Hammersmith, W.6. (239 Beds.)

Required One HOUSE PHYSICIAN and Three HOUSE SURGEONS (Males). These appointments are tenable for six months from 1st July next subject to one month's notice on either side. The duties of one House Surgeon include some work in the X-ray Therapy Department, another some work in the Gynæcological Department, and the third work in the Ear, Nose, and Throat and Ophthalmic Departments. For this last appointment it would be desirable that candidates should be reading for the D.L.O. Salary at the rate of £100 a year with full board and lodgings.

Candidates must be registered under the Medical Act.

Applications must reach me not later than first post on Thursday, 15th June. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a Meeting of the Medical Council at 4.30 P.M. on Friday, 23rd June, and the House Committee Meeting at 5 P.M. the same day, when the appointments will be made.

H. A. MADGE, Secretary.

Hospital of St. John and St. Elizabeth,

60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from August 1st, 1939. Salary at the rate of £100 per annum, with full board.

Applications, together with copies of three testimonials should reach the undersigned by 27th June.

F. DUDLEY HOBBS, B.A., Secretary.

Chelsea Hospital for Women, S.W.3.

There will be a vacancy for an ANÆSTHETIST in the early part of July.

Applications are invited from duly registered Medical Men not engaged in general practice, who must have had training and experience in the various methods of administration of anæsthetics.

Applications, accompanied by copies of testimonials, must reach the undersigned by first post on Friday, 30th June.

GEORGE W. COOLING, Secretary.

Metropolitan Borough of Greenwich.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER.

The Council of the above-named Borough invites applications from Male registered Medical Practitioners not exceeding forty-five years of age, for the appointment of an Assistant Medical Officer.

The person appointed will assist in the work of the Public Health Department and his duties will include attendance at the Council's Tuberculosis Dispensary. He will also perform such duties as may be considered necessary by the Medical Officer of Health.

The inclusive commencing salary will be at the rate of £500 per annum, rising, by annual increments of £25, to a maximum salary of £700 per annum. It is desirable, though not essential that applicants should possess the Diploma in Public Health. Experience in connexion with the work of a Tuberculosis Dispensary will be considered an additional qualification, and in the event of the successful candidate possessing special experience or qualifications for the appointment, consideration will be given to an increase in the amount of the commencing salary.

The successful candidate will be required to devote the whole of his time to the service of the Council, shall not engage in private practice, and shall reside within the Borough.

The appointment will be terminable by three months' notice in writing on either side, and will be subject to the provisions of the Council's Superannuation Acts.

Applications must be made on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials, must be sealed up and endorsed "Assistant Medical Officer" and must reach me not later than 10 A.M. on Monday, 19th June, 1939.

Canvassing members of the Council, either directly or indirectly, will be a disqualification.

D. J. REASON, Town Clerk.

Town Hall, Greenwich, S.E.10, 2nd June, 1939.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

PATHOLOGIST AND CURATOR.

Applications are invited for the office of Whole-time Pathologist and Curator. Candidates must be registered Medical Practitioners.

Salary will commence at the rate of £650, rising to £900 per annum, which salary will be augmented by fees from private work at the Hospital.

The post is a newly created one and it is hoped that the successful applicant will make the position of such value to the Hospital in research, and to the Medical School in teaching, that he will hold it for many years.

The routine duties will consist in the examination of and reporting upon pathological specimens and the teaching of Ophthalmological Pathology. Facilities will be available for biochemical investigations and research.

The Curator is responsible for the upkeep and preservation of the museum and library.

The Pathologist and Curator will be appointed for one year and will be eligible for reappointment yearly.

Candidates are requested to send copies of their application and testimonials (which need not be printed) to the acting Medical and Surgical Staff, whose names and addresses can be obtained on application to the Secretary.

A copy of the Regulations governing the post will be sent on application.

Applications, stating age, with copies of testimonials, must be received not later than 23rd June, 1939.

A. J. M. TARRANT, Secretary.

Maida Vale Hospital for Nervous
DISEASES, London, W.9.

ASSISTANT PHYSICIAN.

Applications are invited for the appointment of Honorary Assistant Physician. Candidates should be Fellows or Members of the Royal College of Physicians and Graduates of a University. Applications, accompanied by three copies of testimonials, should reach the undersigned not later than the 14th June, 1939.

L. C. DIXON, Secretary and General Superintendent.

Hampstead General and North-West
LONDON HOSPITAL, Haverstock Hill, N.W.3.

APPOINTMENT OF HOUSE SURGEON.

Applications are invited from registered Medical Practitioners for the appointment of House Surgeon for six months, vacant July 1st. Salary £100.

Applications, to be made on the prescribed form, together with copies of not more than three testimonials, should be returned to the Secretary by June 17th next.

Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of SURGICAL REGISTRAR (Half-time) for which there are two vacancies. Salary £150 per annum. Candidates should hold the Diploma of F.R.C.S. Particulars as to duties, &c., may be obtained from the Secretary.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 19th June, 1939.

F. G. ROUVRAY, Secretary.

Brompton, June, 1939.

Royal Army Medical Corps.

Vacancies exist for the appointment of qualified Medical Men between the ages of 30 and 45 years to Temporary COMMISSIONS in the Royal Army Medical Corps for periods of one and three years respectively.

Candidates must be British subjects of European descent, and the sons of British subjects, and must be duly registered under the Medical Acts in force in the British Isles.

Appointment will be made in the rank of Lieutenant and the remuneration will be the same as for a Lieutenant in the Regular R.A.M.C. In addition a gratuity at the rate of £100 per annum will be payable on satisfactory completion of contract.

On completion of one year's satisfactory service those engaged on a three years' contract will be eligible for promotion to Captain with the pay and allowances appertaining to that rank. Those engaged on a one-year contract and retained beyond that period will become eligible for similar promotion.

Those engaged on a three years' contract must undertake an obligation to serve abroad, if required.

Further particulars can be obtained by application in writing to the Assistant Director-General, Army Medical Services (A.M.D.1), War Office, Whitehall, S.W.1, and interviews will be readily granted, if required.

These appointments in no way affect the normal appointments to Short Service Commissions open to medical men up to 30 years of age.

ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates, who must be British subjects below the age of twenty-eight years, must hold the Degree or Diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts. Unmarried candidates are preferred. No examination in professional subjects will be held, but candidates will be required to attend at the Admiralty for interview, and for physical examination as to their fitness for service in any part of the world.

Successful candidates will be appointed to Short Service Commissions as Surgeon-Lieutenants (D) and will receive a grant of £50 towards the cost of providing the necessary uniform on entry. Vacancies in the permanent list will be filled by selection from among officers holding Short Service Commissions who desire to make the Royal Naval Dental Service their permanent career. Officers not transferred to the Permanent List will, on the termination of their short service engagement after six years' service, be eligible for a gratuity of £1000.

Opportunities are available for officers on the Permanent List for post-graduate study. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Naval Dental Officers are included in the Scheme for Marriage Allowance under the same conditions as for other Naval Officers.

Application forms and copies of the regulations for entry and conditions of service, rates of pay and allowances, &c., may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, Admiralty, S.W.1, and from the Deans of Dental Schools.

The Willesden General Hospital,
Harlesden-road, N.W.10.

Applications are invited from fully qualified and registered candidates (unmarried) for the appointment of a Resident Officer, to hold the appointment of CASUALTY OFFICER for a period of three months from the 1st July, 1939, followed by a six months' appointment as HOUSE SURGEON. (Total nine months.)

Salary at the rate of £100 per annum with the usual residential emoluments.

Applications to be received by the Secretary not later than first post on Tuesday, 20th June, 1939.

The Willesden General Hospital,
Harlesden-road, N.W.10.

REFRACTION ASSISTANT.

Applications are invited from fully qualified and registered Medical Practitioners for the appointment of Refraction Assistant. The Ophthalmic Clinic is held on Thursday afternoons and an honorarium of £1 1s. per session is paid.

Applications should be received by the Secretary not later than Tuesday, 20th, June, 1939.

The Willesden General Hospital,
Harlesden-road, N.W.10.

HONORARY CLINICAL ASSISTANTS.

Applications are invited for appointment to the following sessions:—

EAR, NOSE AND THROAT ..	Wednesday afternoons.
GYNÆCOLOGICAL	Thursday mornings.
SURGICAL..	Friday afternoons.
MEDICAL	Friday mornings.
SKIN	Saturday mornings.
DENTAL	Monday mornings.

Applications should be forwarded to the Secretary, from whom further details of the appointments may be obtained, and should be received not later than first post on Tuesday, 20th June, 1939.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of September, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 31st August, 1939.

Charing Cross Hospital.

CANCER AND RADIUM REGISTRAR.

The Council invite application from candidates who must be registered Medical Practitioners (Male) for the post of Cancer and Radium Registrar. Honorarium £100 per annum. A previous Surgical Registrar will be a candidate for the post.

Applications, together with copies of three testimonials, must be submitted not later than first post on July 3rd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

Charing Cross Hospital.

Applications are invited for the post of CLINICAL ASSISTANT in the X RAY AND ELECTRO-THERAPEUTIC DEPARTMENT. Honorarium £50 per annum. Candidates should have by preference the qualification of D.M.R.E.

Applications, together with copies of three recent testimonials, should be sent to the undersigned not later than first post July 3rd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

Charing Cross Hospital.

The Council invite applications for the post of CLINICAL ASSISTANT (Male) to the DERMATOLOGICAL DEPARTMENT. Honorarium £50 per annum.

Applications, together with copies of three testimonials, should be sent to the undersigned not later than first post, July 3rd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

Woolwich and District War Memorial

HOSPITAL, Shooter's Hill, London, S.E.18.
(General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as Casualty Officer for six months from July 1st, 1939. Remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as Deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, June 26th, and short-listed candidates will be invited to meet the Appointments Committee on Friday, June 30th, 1939.

R. S. G. HUTCHINGS, Secretary.

The Queen's Hospital for Children,

Hackney-road, London, E.2. (160 Beds.)

HOUSE PHYSICIAN required 1st July, 1939.

CASUALTY OFFICER required 1st July, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 15th June, 1939.

CHARLES H. BESSELL, Secretary.

30th May, 1939.

The Queen's Hospital for Children,

Hackney-road, E.2.
(167 Beds.)

The Board of Management invite applications for the post of ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England. Attendance required on two half-days weekly (including Tuesday mornings for Out-patients). The appointed candidate will have charge of beds. An honorarium to cover travelling expenses will be paid.

Further information may be obtained from the undersigned, to whom applications, with copies of three recent testimonials, should be sent not later than June 17th, 1939.

CHARLES H. BESSELL, Secretary.

Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited for the post of RADIOLOGIST.

Candidates must be registered Medical Practitioners specially qualified in Radiology and must not be engaged in General Practice. There is an honorarium of £120 per annum attached to the appointment.

Copies of the Standing Orders relating to the post can be obtained from the undersigned, and applications must reach the Hospital by first post on Wednesday, 14th June.

W. H. SIDNELL, House Governor.

26th May, 1939.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointment of a SECOND HOUSE SURGEON (Male) tenable for six months from the 1st July, 1939. Salary £100 per annum.

Applications with copies of testimonials, should be addressed to the undersigned as soon as possible.

J. C. GILBERT, Secretary-Superintendent.

THE MOYNIHAN FELLOWSHIP

The Association of Surgeons of Great

BRITAIN AND IRELAND invite applications for the MOYNIHAN FELLOWSHIP to the value of £350, to be held for one year, and to be awarded in November, 1939.

The object of the Fellowship is to enable the holder to pursue a definite line of research or to study surgery in specified clinics either at home or abroad.

Candidates in their applications are required to state the lines of research or study that they intend to pursue, and also to give short accounts of their past careers. No testimonials should be sent, but each candidate is required to provide letters of recommendation from two sponsors who will forward them direct to the Secretary.

Applications must be received by the Secretary of the Association on or before September 30th, 1939, as must letters from the sponsors of candidates.

PHILIP H. MITCHINER, Hon. Secretary.

50, Wimpole-street, London, W.1.

University of London.

CHESTER BEATTY SCHOLARSHIP IN RADIOLOGY.

Applications are invited for the Chester Beatty Scholarship in Radiology of the value of £400 for one year for the purpose of studying Radiology in the United States. The scholar must have obtained the Academic Postgraduate Diploma in Medical Radiology of the University of London.

Applications (on the prescribed form) must be received not later than 1st July, 1939, by the Academic Registrar, The Senate House, University of London, W.C.1, from whom further particulars should be obtained.

University College Hospital Medical

SCHOOL.

RADCLIFFE CROCKER TRAVELLING SCHOLARSHIP IN DERMATOLOGY.

The Committee of University College Hospital invite applications for the Radcliffe Crocker Travelling Scholarship in Dermatology.

The Scholarship is of the approximate value of £280, tenable for a period of twelve months, to be spent at some place of study named by the School Committee, outside of the United Kingdom.

Candidates must be British subjects, students of a London Medical School, and graduates of a University in the United Kingdom.

Applications must be submitted on or before 30th June, 1939.

For further particulars apply to the Dean, University College Hospital Medical School, University-street, London, W.C.1.

R. SLOLEY, Secretary.

London Jewish Hospital,

Stepney Green, E.1.

CLINICAL ASSISTANT (Honorary) required in the OPHTHALMIC OUT-PATIENT DEPARTMENT. Attendance weekly on Fridays at 2 P.M.

Apply Secretary, London Jewish Hospital, Stepney Green, E.1.

Royal National Orthopædic Hospital.

RESIDENT HOUSE SURGEON.

Urgently required to fill unexpected vacancy. Salary at the rate of £150 a year all found.

Apply the House Governor, 234, Great Portland-street, London, W.1.

Royal National Orthopædic Hospital.

SURGICAL REGISTRAR.

Applications are required immediately for the appointment of Registrar. Candidates who have obtained the F.R.C.S.(Eng.) will be preferred. Honorarium at the rate of £105 per annum.

Apply the House Governor, 234, Great Portland-street, London, W.1.

Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.

(135 Beds.)

Applications are invited for the post of ASSISTANT PHYSICIAN to the above Hospital. Candidates should be doubly qualified, duly registered in this country and Fellows or Members of the Royal College of Physicians, London. They should also have in view the fact that the early removal of the In-patient Department of the Hospital to Banstead, Surrey, is in contemplation.

A list of the Honorary Medical Staff, on whom candidates are expected to call, and other necessary information can be obtained from the Secretary, to whom all applications should be sent not later than the 17th June, 1939.

London Hospital, E.1.

Applications are invited for the post of MEDICAL OUT-PATIENT FIRST ASSISTANT. Candidates must be fully qualified medically. The salary of the post is £150 per annum. The duties involve attendance in the Medical Out-Patient Department on every week-day afternoon.

Applications, with copies of testimonials should be sent to the House Governor from whom further particulars may be obtained and should arrive not later than on Saturday, 17th June.

ARTHUR G. ELLIOTT, House Governor.

Charterhouse Rheumatism Clinic.

A further increase of staff has become necessary.

Immediate applications are invited for HONORARY CLINICAL ASSISTANTS. Appointments will be for six months (renewable).

Applications to be addressed to the Secretary, C.R.C., 56, Weymouth-street, W.1.

King George Hospital, Ilford (near

London). (207 Beds.)

Applications are invited for the following appointments:—

MEDICAL REGISTRAR (Male) for twelve months from 1st July. Salary at the rate of £150 per annum.

ASSISTANT CASUALTY OFFICER and HOUSE SURGEON to SPECIAL DEPARTMENTS (Male) for six months from 1st July. Salary at the rate of £100 per annum.

Forms of application may be obtained from the undersigned to whom they should be returned, duly completed, not later than the 22nd June.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

The Radium Institute and Mount

VERNON HOSPITAL,

1, Riding House-street, London, W.1.

Applications are invited for the post of HOUSE SURGEON at the MOUNT VERNON HOSPITAL, NORTHWOOD. The appointment will be made for six months at a salary at the rate of £150 per annum, with board and residence, commencing 17th July next.

Applications should be sent by the 24th June to the undersigned at the above address.

T. A. GARNER, Secretary.

Derbyshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant County Medical Officer of Health. Candidates must possess a qualification in Public Health, have had both practical and administrative experience of the medical inspection of school-children, the organisation of school clinics and infant welfare centres, and have a sound knowledge of the provisions of the Midwives Act and the rules of the Central Midwives Board.

The officer appointed will be required to devote the whole of his time to the duties of the office and to work under the direction of the County Medical Officer. The work will be largely administrative and office accommodation will be provided in the Central Office.

The salary will be £750, rising by annual increments of £25 to £850 a year, together with travelling expenses in accordance with the County scale, and the appointment will be subject to the approval of the Minister of Health and the Board of Education.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

The appointment will be determinable by three months' notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than June 26th, 1939. Application forms are not provided.

W. M. ASH, County Medical Officer of Health.

County Offices, St. Mary's Gate, Derby.

9th June, 1939.

West Cornwall Hospital, Penzance.

(55 Beds. Extensions in progress.)

HOUSE SURGEON (Male) required immediately for a period of six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be submitted to the undersigned. J. E. HOLLINGTON, Hon. Secretary.

Tilbury Hospital, Tilbury, Essex.

(Seamen's Hospital Society.) (92 Beds.)

HOUSE SURGEON (Male) required for six months as from 1st July. Salary £140 per annum, with board, residence and laundry.

Applications, with copies of three testimonials, to be sent in immediately to the undersigned.

F. A. LYON, Secretary,

Seamen's Hospital Society, Greenwich, S.E.10.

26th May, 1939.

Royal Infirmary, Blackburn.

(244 Beds. 5 Residents.)

RESIDENT HOUSE SURGEON (Male) required at a salary of £175 per annum with board, residence, laundry, &c.

Applications with copies of testimonials, stating age, nationality, experience, &c., to be sent to the undersigned as early as possible.

T. DEWHURST,

General Superintendent and Secretary.

Royal Infirmary, Blackburn.

This Institution is recognised for the surgical practice required for the F.R.C.S. examination.

Bedfordshire County Council.

ASSISTANT MEDICAL OFFICER OF HEALTH, MATERNITY AND CHILD WELFARE (FEMALE).

Applications are invited for the above appointment. Applicants must be registered Medical Practitioners, possess the Diploma in Public Health and subsequent to qualification have had at least three years' experience in the practice of their profession and special experience in practical midwifery, ante-natal, and maternity and child welfare work.

The person appointed will be required to devote the whole of her time to the duties assigned to her and not to engage in private practice.

The Officer, who will be under the direction of the County Medical Officer of Health, will be required to perform such other duties as the Council may direct.

Salary £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum, together with a travelling allowance of £170 per annum.

The appointment will be subject to the successful candidate passing a medical examination and to the provisions of the Local Government and Other Officers' Superannuation Act, and will be terminable by three months' notice to be given by either side on any date.

Further particulars can be obtained from the County Medical Officer of Health, Shire Hall, Bedford.

Applications, stating age, qualifications, and previous experience, accompanied by copies of three recent testimonials, and endorsed "Assistant Medical Officer (Female)" should reach the undersigned not later than Monday, 26th June, 1939.

J. B. GRAHAM, Clerk of the County Council.

Shire Hall, Bedford, June, 1939.

Kent and Sussex Hospital.

ROYAL TUNBRIDGE WELLS.

(210 Beds.)

Applications are invited for the post of HOUSE SURGEON, EAR, NOSE, AND THROAT AND OPHTHALMIC DEPARTMENTS, and RESIDENT ANÆSTHETIST, to commence duty on 1st July, 1939. Salary £150 per annum, with board, residence, and laundry in the hospital.

The Hospital contains the following Departments: Medical, Surgical, Ear, Nose and Throat, Ophthalmic, Orthopædic, Gynæcological, X-Ray and Electrotherapeutic, Massage, Pathological, Venereal Diseases, &c.

Applications, stating qualifications, together with certificate of registration, and copies of not more than three recent testimonials, should be sent to the undersigned as soon as possible.

TOM B. HARRISON, Superintendent-Secretary.

5th June, 1939.

Royal United Hospital, Bath.

HOUSE PHYSICIAN required for 1st July, 1939. Resident Staff of two House Physicians and three House Surgeons.

Duties include some casualty. Salary £150 per annum, board, residence, and laundry.

The appointment is for six months, and candidates must be Male, unmarried, and of British nationality.

Applications, with copies of three testimonials, to be addressed to the undersigned by June 14th.

J. LAWRENCE MEARS, Secretary-Superintendent.

5th June, 1939.

Durham County Hospital.

(100 Beds.)

Male HOUSE SURGEON required. Duties to commence 1st July, 1939.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for similar period.

Applications, stating age, experience, and nationality, accompanied by three recent testimonials, should be addressed to the undersigned not later than Monday, 19th June, 1939.

NORMAN BROWN, Secretary.

5th June, 1939.

Mansfield and District General

HOSPITAL, NOTTS.

(150 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) for a period of six months. Duties to commence early in July. Salary £150 per annum, with board, residence, and laundry. Two other Resident House Surgeons and House Physician.

Applications, stating age and qualifications, together with copies of three recent testimonials, to be sent to the undersigned not later than 24th June. Selected candidates will be required to attend for interview.

A. ASHWORTH, Secretary.

Wingfield-Morris Orthopædic Hospital,

HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.

Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Residence to commence about November 15th. Some Orthopædic experience essential.

Information can be obtained from, and application before October 7th should be made to, Professor G. R. GIRDLESTONE.

Aberdeen Royal Infirmary.

RADIUM CENTRE.

The Directors invite applications for appointment to the position of SURGEON in charge of Radium Therapy. Salary £800 per annum.

Further particulars may be obtained from the undersigned, with whom applications and testimonials (six copies of each) should be lodged not later than 10 A.M. on 20th June, 1939.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen, 6th June, 1939.

The Glasgow Eye Infirmary.

The Directors invite applications from registered Medical Practitioners for the post of RESIDENT HOUSE SURGEON. Salary £150 per annum, with apartments and board.

Applications, with copies of testimonials, should be lodged with the undersigned by 17th June, 1939.

T. C. CALDWELL, Secretary.

140, West George-street, Glasgow, C.2, 1st June, 1939.

Royal Victoria Hospital, Folkestone.

(135 Beds.)

Applications are invited for the post of RESIDENT HOUSE SURGEON to take charge of special departments Ear, Nose, and Throat, Ophthalmic, Radium, and to share duties of Casualty Officer and administration of Anæsthetics. Duties to commence 1st July, 1939. Salary £120 per annum. There are two other resident house surgeons.

Applications, with copies of not more than three recent testimonials, should be sent to the undersigned not later than the 17th June, 1939.

W. GEORGE SPENCER, Secretary Superintendent.

2nd June, 1939.

City of Lincoln.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Medical Officer (Male) unmarried at the CITY HOSPITAL AND SANATORIUM, LINCOLN, for a period of twelve months. Salary £300 per annum, with board, lodging and laundry.

Applications must be made on the prescribed form not later than 24th June, 1939.

Forms of application and further particulars of appointment may be obtained from the Medical Officer of Health, Beaumont Fee, Lincoln.

G. H. BANWELL, Town Clerk.

Corporation Offices, Lincoln, 5th June, 1939.

County Borough of Dewsbury.

MATERNITY HOSPITAL.

(27 Beds.)

Applications are invited from Male or Female registered Practitioners (single) for the appointment of RESIDENT ASSISTANT MEDICAL OFFICER in the MATERNITY AND CHILD WELFARE DEPARTMENT, at a salary of £350 rising by £25 to £550 per annum, with emoluments valued at £150.

The person appointed will be required to reside in the Municipal Maternity Hospital, to take ante-natal and post-natal clinics, and to undertake any other duties in the department that may be required.

Candidates must have held previous hospital appointments, and post-graduate experience in midwifery is essential. Higher qualifications in midwifery or the D.P.H. are desirable.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, endorsed "Resident A.M.O.H.," together with copies of not more than three recent testimonials, should be forwarded to the Medical Officer of Health, Municipal Buildings, Halifax-road, Dewsbury (from whom such forms of application may be obtained) not later than Friday, June 23rd.

HOLLAND BOOTH, Town Clerk.

Town Hall, Dewsbury, 6th June, 1939.

County Borough of Southampton.

ASSISTANT PORT MEDICAL OFFICER OF HEALTH.

Applications are invited for the above-mentioned position at a salary of £500 per annum, rising by annual increments of £25 to a maximum of £700.

Form of application may be obtained from the Medical Officer of Health, Civic Centre, Southampton and must be returned to the undersigned on or before the 26th June, 1939.

R. RONALD H. MEGGESON, Town Clerk.

Civic Centre, Southampton, 6th June, 1939.

Norfolk and Norwich Hospital,

NORWICH. (448 Beds.)

Applications are invited for the following posts:—

(a) HOUSE PHYSICIAN. (b) HOUSE SURGEON.

The salary for each post is at the rate of £120 per annum, with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age and nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than Tuesday, the 20th June, 1939.

FRANK INCH, House Governor and Secretary.

10th June, 1939.

Barbados General Hospital.

(275 Beds.)

Wanted, a duly qualified whole-time RADIOLOGIST, who shall be a registered Medical Practitioner, with Hospital experience of X Ray Therapy.

Salary £800 per annum, without quarters or private practice.

The appointment, which is pensionable and renewable, is for three years, subject to three months' notice on either side to terminate the engagement.

Twenty-eight days' leave a year on full pay.

First-class passage by sea direct to Barbados will be paid by the Hospital Board, and, in the event of the successful applicant being married, the Board will assist with the passages of this Officer and his family to the extent of a sum not exceeding £100. In case of service for less than three years a proportionate part of the passage money is to be refunded except he shall have relinquished his engagement on a medical certificate of ill health due to service.

The work required of the Radiologist is to take charge of the existing diagnostic X Ray equipment and to open an electrical Therapy Unit.

Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be received up to 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order.
W. GOODMAN, Secretary.

Barbados General Hospital.

Wanted, a duly qualified Medical Practitioner, Male, single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of the Barbados General Hospital (275 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period.

Applications must be accompanied by a photograph, a medical certificate of physical fitness at the time of application, recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in administering modern anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 beds, or of a Post-graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registrable in the State of New York.

Applications will be closed on 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By order.
W. GOODMAN, Secretary.

Royal Sheffield Infirmary and Hospital.

THE ROYAL INFIRMARY, SHEFFIELD.
(476 Beds.)

Applications are invited for the post of OPHTHALMIC HOUSE SURGEON.

The salary attached to this post varies from £80 to £120 per annum (according to experience), with board and residence.

The Ophthalmic Department contains 69 beds and a large Out-patient Department.

Applications, with copies of recent testimonials, giving full qualifications and previous hospital experience, to be forwarded forthwith to the undersigned.

H. KINGSLEY PEARCE,
General Superintendent and Secretary.

The Royal Infirmary, Sheffield, 6, 1st June, 1939.

Royal Hampshire County Hospital,

WINCHESTER.
(187 Beds: four other Residents.)

RESIDENT SURGICAL OFFICER.

Applications are invited from fully qualified men for the above position, to commence duties on June 23rd next. Candidates should be Fellows of one of the Royal Colleges of Surgeons of Great Britain or Ireland. The appointment will be for six months. Salary £200, with board, residence, and laundry.

Application should be made as soon as possible to the undersigned, enclosing copies of three testimonials.

H. EWART MITCHELL,
Superintendent and Secretary.

1st June, 1939.

City of Manchester.

CRUMPSALL HOSPITAL. (1400 Beds.)
(Recognised under the regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry, in addition, subject to the Manchester Corporation conditions of service. The duties of the appointment are mainly of a medical nature.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Box 399, Town Hall, Manchester, 2, and applications for the post must be received by him not later than June 17th, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 30th May, 1939.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE PHYSICIAN. The appointment will be for six months from July 1st, 1939, but is terminable at an earlier date by one month's written notice on either side. Salary at the rate of £130 per annum with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four, testimonials, to the undersigned on or before Wednesday, June 14th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

Warwickshire and Coventry Mental

HOSPITAL, HATTON, Near WARWICK.

DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the post of Deputy Medical Superintendent at the above Hospital. Salary £650 per annum, rising to £750 by four annual increments of £25, together with emoluments value £150 per annum.

Applications, together with three testimonials, to be sent to the Medical Superintendent, Hatton, near Warwick, by June 20th.

Western Infirmary of Glasgow.

(Incorporated.)

The Managers invite applications for a
FULL-TIME ASSISTANT RADIOLOGIST.

The salary is £400 per annum, and candidates are requested to lodge with the subscriber, on or before June 21st, 1939, seventeen applications, with copies of at least two testimonials with each application.

Canvassing not permitted.

J. MATHESON JOHNSTON, Secretary and Treasurer.

87, Union-street, Glasgow.

Royal East Sussex Hospital, Hastings.

Applications are invited for the post of JUNIOR HOUSE SURGEON (Female) vacant 1st July, 1939. The appointment is for a period of six months. Salary at the rate of £150 per annum with board-residence.

Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary by June 19th.

WILFRID G. KEMSLEY.

Stirling District Mental Hospital,

LARBERT.

ASSISTANT MEDICAL OFFICER—Lady—(Clinical Pathologist) required. Well equipped laboratory and facilities given for research work. Salary commencing at £250 per annum, rising by annual increments of £25 to £350, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age, with particulars as to experience in laboratory work, and testimonials, to the Medical Superintendent.

Royal Salop Infirmary, Shrewsbury.

(156 Beds.)
(Enlarging to 226 Beds.)

APPOINTMENT OF RESIDENT SURGICAL OFFICER.

Applications are invited from fully qualified Men for the appointment of Resident Surgical Officer vacant immediately.

The appointment is for a period of twelve months, at a salary of £250 per annum, with board, residence, &c.

The resident Surgical Officer is Senior Resident Officer to the Hospital.

House Staff comprises House Physician and two House Surgeons.

Applications, stating age, qualifications, experience, nationality, and accompanied by copies of three recent testimonials, to be sent to the undersigned immediately.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 25th May, 1939.

Borough of Dover.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND PORT MEDICAL OFFICER.

Applications are invited from duly qualified persons for the appointment of Medical Officer of Health of the Borough and Medical Officer to the Dover Port Health Authority, at an inclusive salary of £900 per annum, rising by three annual increments of £100, to a maximum of £1200 per annum, plus a travelling allowance of £15 per annum in respect of the use of his own motor car in the execution of the duties of the office. Office accommodation and clerical assistance are provided by the Corporation.

Candidates must be duly qualified Medical Practitioners and hold a Diploma in Sanitary Science, Public Health or State Medicine. The successful candidate will be required to devote his whole time to the service of the Corporation, and will not be permitted to engage in private practice.

The appointment will be subject to the provisions of Section 110 of the Local Government Act, 1933, and Part III of the Sanitary Officers (Outside London) Regulations, 1935. The post is an established one under the Local Government Superannuation Act, 1937, and the person selected for appointment will be required to pass a medical examination, and to commence his duties not later than the 1st December next.

Full particulars of the duties and conditions of the appointment, together with a form of application may be obtained from me, on receipt of a stamped and addressed envelope, and applications, on the appropriate form, accompanied by copies of not more than three recent testimonials, must be forwarded in an envelope endorsed "Medical Officer of Health" to reach me not later than Tuesday, the 27th June, 1939.

Canvassing members of the Town Council or Corporation Officers, either directly or indirectly, will be a disqualification.

S. R. H. LOXTON, Town Clerk.

Town Clerk's Office, Brook House, Dover, 1st June, 1939.

Borough of Stourbridge, WORCESTERSHIRE.

NORTH WORCESTERSHIRE JOINT ISOLATION HOSPITAL BOARD.

Applications are invited from registered Medical Practitioners holding a diploma in Public Health for the appointments of:

(1) MEDICAL OFFICER OF HEALTH for the BOROUGH OF STOURBRIDGE (population estimated 35,000); and

(2) MEDICAL OFFICER to the NORTH WORCESTERSHIRE JOINT ISOLATION HOSPITAL at Hayley Green (this is at present a non-resident appointment).

The duties of the appointed officer will include all ordinary administrative duties undertaken by a Medical Officer of Health for the Stourbridge Borough Council and responsibility for the treatment of infectious cases admitted to the Infectious Diseases Hospital maintained by the Joint Board.

The combined salary will be £800 per annum (Stourbridge Borough £400, Joint Hospital Board £400), and the person appointed will be required to pass a medical examination and to contribute to the superannuation funds of the two authorities; a car allowance of £60 per annum will also be payable.

The appointed officer will be required to reside in or near the Borough of Stourbridge. The appointment may be determined by either the appointed officer or the employing authorities giving three months' notice.

Applications (on forms to be obtained from the County Medical Officer, County Buildings, Worcester), accompanied by not more than three recent testimonials, should be received at the same office, marked "Stourbridge Joint Appointment," by not later than 12 noon on Wednesday, 21st June, 1939.

(Signed) GEOFFREY INCE, Town Clerk.

F. H. GROVE,
Clerk to the North Worcestershire Joint Hospital Board (O.I.).

County Borough of Swansea.

ASSISTANT MEDICAL OFFICER. Male or Female.

Applications are invited from registered Medical Practitioners under forty years of age for the above-named post.

Resident Hospital, Mental Deficiency, School Medical Service and Maternity and Child Welfare experience is desirable.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.

Salary £500, rising by annual increments of £25 to £700.

Application forms may be obtained from the Medical Officer of Health, Public Health Department, Guildhall, Swansea, to whom they should be returned not later than June 19th, 1939.

H. L. LANG-COATH, Town Clerk.

Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications from Gentlemen for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £200 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary, endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

Worcestershire County Council.

THE WORCESTERSHIRE KING EDWARD VII MEMORIAL SANATORIUM, KNIGHTWICK, Near WORCESTER.

Applications are invited from duly registered Medical Practitioners (Male, single) for the joint appointments of ASSISTANT COUNTY TUBERCULOSIS OFFICER (part-time) and RESIDENT MEDICAL OFFICER of the Sanatorium which has 86 Beds and is administered by a Voluntary Organisation.

The applicant should have had at least three years' experience in the practice of his profession, have spent in general clinical work a period of not less than eighteen months of which not less than six months have been spent in a hospital as resident officer in charge of beds occupied by general medical or surgical cases, and have received special training, for a period of not less than six months, in the diagnosis and treatment of tuberculosis.

The Sanatorium is provided with the necessary forms of modern treatment, including X-ray apparatus.

By arrangement with the Worcestershire County Council the Officer appointed as Resident Medical Officer will act as part-time Tuberculosis Officer for the Worcestershire County Council and this work will include attendance at a Dispensary.

The Officer appointed will be responsible to the Chief Tuberculosis Officer both as Resident Medical Officer and as Assistant Tuberculosis Officer.

A separate suite of rooms will be provided at the Sanatorium.

The commencing salary will be at the rate of £450 per annum, rising on satisfactory service by annual increments of £25 to £550 per annum, together with board, lodging, and attendance valued at £150 per annum. A car allowance of £100 per annum will also be paid.

Applications, on forms to be obtained from the Public Health Department, County Buildings, Worcester, must be received not later than the 17th June, 1939.

Canvassing in any form will disqualify.

(Signed) C. H. BIRD,
Clerk of the County Council,
Shirehall, Worcester.

J. P. HOLDER,
Secretary to the Sanatorium,
12, Beech Avenue, Worcester.

Worcester.

Berkshire County Council.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the post of whole-time Assistant Medical Officer (Female).

The duties will be in connexion with the Maternity and Child Welfare and School Medical Services. The officer will also be required to undertake such other duties as the County and School Medical Officer may, from time to time, assign.

Candidates must, subsequent to qualification, have had at least three years' experience in the practice of their profession, and special experience of practical midwifery and antenatal work. The Diploma in Public Health will be considered an additional recommendation.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to £700 per annum, and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination and to produce her birth certificate.

The appointment will be subject to three calendar months' notice on either side.

Forms of applications may be obtained from the undersigned, and should be returned by first post on 17th June, 1939, together with copies of three testimonials.

Canvassing members of the Council will disqualify.

H. J. C. NEOBARD, Clerk of the County Council.

Shire Hall, Reading, 22nd May, 1939.

The Royal Portsmouth Hospital, PORTSMOUTH.

(Six Resident Medical Officers.)
(250 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence duty on the 1st July, 1939. Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials, to be sent to the undersigned on or before 12th June, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

Rotherham Hospital.

(130 Beds.)

CASUALTY HOUSE SURGEON.

Applications are invited from qualified men for the post of Casualty House Surgeon. Duties to commence as soon as possible, will include work in the EAR, NOSE, AND THROAT DEPARTMENT. Excellent experience to be gained in the treatment of fractures. Salary £150 per annum, with full board, residence, and laundry.

Applications, with copies of recent testimonials, should be sent to the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham, Yorks.

City of Birmingham.

PUBLIC HEALTH DEPARTMENT.
TUBERCULOSIS SECTION.

ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from single registered Male Medical Practitioners for the post of Assistant Resident Medical Officer in the Tuberculosis Section of the Public Health Department. The successful candidate will be employed both in a Sanatorium and in a Dispensary. Candidates should have held a resident general hospital appointment and an appointment in some institution recognised for the treatment of tuberculosis.

The commencing salary will be at the rate of £450 per annum, rising by £25 to £500 per annum with emoluments valued at £150 per annum, and the appointment will be terminable by one month's notice on either side.

The successful candidate will be required to pass an approved medical examination, to contribute to the superannuation scheme established under the Local Government Superannuation Act, 1937, and if under thirty years of age, to join the Birmingham Municipal Officers' Widows and Orphans' Pension Scheme.

Forms of application and a summary of duties may be obtained from, and should be returned with three recent testimonials to, the Chief Clinical Tuberculosis Officer, 151, Great Charles-street, Birmingham, 3, not later than the 26th June, 1939.

City of Birmingham.

TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH.

The Public Health and Maternity and Child Welfare Committee invite applications for a *temporary* whole-time Assistant Medical Officer of Health for general public health duties, for a period of four months from the middle of June. Candidates must be qualified Medical Practitioners and hold the Diploma in Public Health.

Salary at the rate of £600 per annum.

Applications, setting out the candidate's age, qualifications and previous hospital and public health experience, to be sent in candidate's own handwriting, accompanied by copies of two recent testimonials, to the Medical Officer of Health, Council House, Birmingham, not later than Monday morning, June 12th.

F. H. C. WILTSHIRE, Town Clerk.

The Corbett Hospital, Stourbridge.

(100 Beds and Special Departments.)

Applications are invited for the following post which will become vacant on the 1st July next.

HOUSE PHYSICIAN at a salary at the rate of £125 per annum, with board, laundry, &c.

The appointment will be for a period of six months, terminable by six weeks' notice.

The Hospital has a Specialist Visiting Staff and Resident Surgical Officer.

Applications, giving full details of qualifications, age, and experience, accompanied by three copies of testimonials, should be addressed to the undersigned forthwith.

W. G. H. WESTON, Secretary.

Hill End Hospital and Clinic for the

PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS,
ST. ALBANS, HERTS.

HOUSE PHYSICIANS (two) required shortly, age not over thirty-five years. Appointment for six months at £165 per annum, with board and quarters, renewable for a further six months at £200 per annum.

The Hospital has 1200 beds, is the County Mental Hospital for Hertfordshire, O.P. department for Psychiatric and Child Guidance treatment. Laboratory, Occupational Therapy, &c.

Preference will be given to candidates who have been accepted for the Tavistock Clinic Course in Psychotherapy and facilities will be given to attend this course.

Application forms and further particulars can be obtained from the Medical Director as above or from the Medical Director, Tavistock Clinic, Malet-place, London, W.C.1.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M., on Monday, 12th June, 1939.

J. R. MACKRILL, Secretary.

AMENDED ADVERTISEMENT.

Essex County Council.

TEMPORARY TUBERCULOSIS OFFICER required on 26th June, 1939, for holiday duties for approximately three months at a fee of £12 per week, inclusive of travelling expenses.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be addressed and delivered to the Clerk of the County Council, County Hall, Chelmsford, not later than 10 A.M. on Thursday, 15th June, 1939.

The Children's Hospital, Sheffield.

(157 Beds.)

HOUSE PHYSICIAN required immediately. Salary £100 per annum, with board, residence and laundry.

Candidates (Male and unmarried), who must possess registered qualifications, should forward applications, stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Free Eye Hospital, Southampton.

The Committee require the services of a duly qualified HOUSE SURGEON for a period of six months, to commence duty immediately. Salary £150 per annum, with board, residence and laundry.

Post-graduate experience in Ophthalmology is desirable.

Applications, with three recent testimonials, to be sent to the Secretary.

Three Counties Mental Hospital,

ARLESEY, BEDS.

Applications are invited for the post of SENIOR ASSISTANT MEDICAL OFFICER at a salary of £650, rising to £700 by two annual increments of £25.

In the case of a single man, a deduction of approximately £150 will be made for board, lodgings, &c.

Applications, stating age, qualifications, experience, &c., together with copies of three recent testimonials, to be sent to the Medical Superintendent not later than 19th June.

Kent County Mental Hospital,

CHARTHAM, near CANTERBURY.

JUNIOR ASSISTANT MEDICAL OFFICER required. Salary £350 per annum, rising by annual increments of £25 to £450 per annum, with board, lodging, washing, &c., valued at £209 per annum. The appointment will be made subject to the Asylums Officers' Superannuation Act, 1909, and a satisfactory Medical Examination. The Committee will require the successful candidate to take a Diploma in Psychological Medicine (for which facilities will be given) and for which an extra £50 per annum will be paid.

Forms of application can be obtained from the Medical Superintendent.

North Staffordshire Royal Infirmary,

STOKE-ON-TRENT. (410 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the AURAL AND OPHTHALMIC DEPARTMENTS.

Salary at the rate of £150 per annum, with board, residence, and laundry. The appointment will be for six months, renewable.

Applications, stating age and experience, with copies of two recent testimonials to be sent to the undersigned immediately.

THORNBURROW GIBSON, Secretary and House Governor.

23rd May, 1939.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th June.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S. England or Edinburgh.

Applications, stating age and qualifications, together with copies of three recent testimonials, to reach the undersigned as soon as possible.

ARTHUR R. CASH, General Supt. and Secretary.

Taunton and Somerset Hospital,

TAUNTON.

A HOUSE PHYSICIAN required June 22nd. Six months' appointment. Two House Surgeons also in residence. Salary at the rate of £125 per annum, with board, residence, and laundry, and the retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

Royal Berkshire Hospital, Reading.

(338 Beds.)

Applications are invited for the following resident appointments which fall vacant on August 1st, 1939:—

One HOUSE SURGEON (Male).

One HOUSE SURGEON to the SPECIAL DEPARTMENTS (Eye, Ear, Nose and Throat) (Male).

One CASUALTY OFFICER (Male).

The appointments are for six months, and candidates must be fully qualified and registered. Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned.

H. E. RYAN, Secretary and House Governor.

Derbyshire Education Committee.

SCHOOL MEDICAL SERVICE.

ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the post of Assistant School Medical Officer (Male) at a salary of £500, rising by annual increments of £25 to £700 per annum, together with a travelling allowance in accordance with the County scale.

Candidates must be registered Medical Practitioners of at least three years' standing. The duties will include work under the Maternity and Child Welfare Service, and experience in this work and in Mental Deficiency is desirable.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act and the successful candidate will be required to pass a medical examination.

The officer appointed will not be allowed to engage in private or consulting practice, but will be required to devote the whole time to the duties of the office and will act under the direction of the School Medical Officer.

Forms of application may be obtained from the undersigned to whom they should be returned completed, together with copies of not more than three recent testimonials, on or before June 26th, 1939, endorsed "Assistant School Medical Officer."

The appointment will be terminable by three months' notice on either side.

W. M. ASH, School Medical Officer.

County Offices, St. Mary's Gate, Derby, 9th June, 1939.

The West Riding of Yorkshire Mental HOSPITALS BOARD.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER. STORTHES HALL MENTAL HOSPITAL, KIRKBURTON, Near HUDDERSFIELD.

Applications are invited for the appointment of an Assistant Medical Officer in the Board's service at the above Mental Hospital, at a commencing salary of £350 per annum, rising by annual increments of £25 to a maximum of £450, together with emoluments (board, apartments, and laundry), valued at £120 per annum. The Board will allow an extra £50 per annum to the successful candidate who (whilst on this scale) holds or obtains the Diploma in Psychological Medicine, for which this hospital affords special study facilities.

It will be an advantage if candidates have had at least one year's experience in general medicine after qualification.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1.

Applications, with copies of not more than two recent testimonials, stating age and full particulars, to reach the Medical Superintendent, Storthes Hall Mental Hospital, Kirkburton, near Huddersfield, not later than the 21st June, 1939.

There is no printed form of application.

G. L. BANNER, Clerk of the Board.

Board Offices, Wakefield, June, 1939.

Romford Isolation Hospital.

(235 Beds.)

APPOINTMENT OF SENIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified and registered Practitioners for the above post. Applicants must be male and unmarried, and must have held a resident post in a Fever Hospital. Experience in practical Bacteriology and Anæsthetics is also essential.

The Hospital is modern, affords good opportunities for the study of infectious diseases, and has a well-equipped Laboratory.

Salary £350–£25–£450 per annum, plus the usual emoluments.

The post is designated for the purposes of superannuation, and the successful candidate will be required to pass a medical examination.

The appointment is terminable by two months' notice on either side.

Applications, stating age, nationality and previous experience and appointments, together with copies of three recent testimonials or names for reference to be addressed to the Medical Superintendent, Isolation Hospital, Rush Green, Romford, Essex not later than Saturday, the 17th June, 1939.

5th June, 1939.

Education Committee for the County BOROUGH OF BRIGHTON.

APPOINTMENT OF MALE SENIOR MEDICAL OFFICER AND ASSISTANT TO THE MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointment. Candidates must not be over forty-five, have had experience of the School Medical Services, possess the Diploma in Public Health, or its equivalent, and be approved by the Board of Education for Mental Deficiency work.

The Senior Medical Officer will act under the supervision of the School Medical Officer and will be required to devote his whole time to the service of the Authority; he will not be allowed to undertake any private practice, and will be required to reside in the borough of Brighton.

Salary £800, rising by biennial increments of £50 to a maximum of £1000, which is subject to statutory deductions under the Local Government and Other Officers' Superannuation Acts.

Canvassing, directly or indirectly, will disqualify.

Form of application and schedule of duties may be obtained from the Education Officer, 54, Old Steine, Brighton, 1, and must be returned by 10 A.M. on the 24th June, 1939.

Hull Royal Infirmary.

The Appointing Committee invite applications for the office of HONORARY GYNÆCOLOGIST. The appointment will be for a period of five years and may be renewed. A candidate must be a Fellow of one of the Royal Colleges of Surgeons and a Member or Fellow of the British College of Obstetricians and Gynæcologists and be exclusively engaged in the practice of his speciality.

The number of beds allotted to the candidate appointed will, at the outset, be eight, and he will rank with the Assistant Surgeons. In addition to his in-patient work he will conduct an out-patient clinic at a time to be fixed by the Board. During the term of his appointment he shall not apply for or accept a post at any other hospital or clinic without the previous consent of the Board.

Personal canvassing is prohibited but candidates may send copies of their applications and testimonials to members of the Appointing Committee.

Applications, stating age, and addressed to the Chairman of the Board of Management, should reach the Hospital not later than Saturday, July 15th, 1939.

R. J. CARLESS, House Governor.

County Council of Durham.

EDUCATION DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

The County Education Committee invite applications for the post of Assistant School Medical Officer (Man) to act under the School Medical Officer in connexion with the inspection of school-children and such other duties as may be required by the Education Committee.

Commencing salary £500 per annum (provided the candidate has had not less than three years' post-graduate experience), rising by annual increments of £25 to £700 per annum, together with travelling expenses according to the County Scale.

The successful candidate will be required to devote his whole time to the duties of the office and reside in or near the district to which he will be attached at a place to be approved by the Education Committee. The appointment will be subject to three calendar months' notice on either side, expiring on the last day of any calendar month.

Applicants must have had experience in the work of school medical inspection and preference will be given to candidates who:—

(a) Have had experience in the work of School Clinics;
(b) Have been accustomed to make special reports on Mentally Defective, Physically Defective, Epileptic and other Defective Children.

The possession of a Diploma in Public Health is essential.

Canvassing, directly or indirectly, is prohibited and will disqualify.

A deduction will be made from the salary in accordance with the Local Government Superannuation Act, 1937, and the appointment will be subject to the candidate passing the medical examination in connection therewith.

Other terms and conditions of appointment to be in accordance with the County Regulations.

Forms of application, to be returned not later than Saturday, 24th June, 1939, may be obtained from the Director of Education, Shire Hall, Durham, on receipt of a stamped addressed foolscap envelope.

THOS. B. TILLEY, Director of Education.

Shire Hall, Durham. 1st June, 1939.

Middlesex County Council.

NORTH MIDDLESEX COUNTY HOSPITAL, Silver-street, Edmonton, N.18.

OBSTETRICIAN (Grade II). Registered Medical Practitioner of high qualifications and professional attainments having devoted time chiefly to the practice of obstetrics and gynæcology. Whole-time duties under supervision of Medical Superintendent may include teaching students, etc. Required to reside near hospital. Salary, £650–£50–£1000 per annum, is inclusive and any fees received to be paid to the Council. Pensionable appointment, subject to medical examination and three months' notice.

HAREFIELD SANATORIUM, Near UXBRIDGE, MIDDLESEX.

RESIDENT ASSISTANT MEDICAL OFFICER. Single men having held resident appointments in general hospitals, with practical experience in diagnosis and treatment of tuberculosis. Whole-time duties under supervision of Medical Superintendent. Salary £400–£25–£475 per annum, with board, lodging, and laundry. Appointment, for four years only, is subject to one month's notice. Medical examination in connexion with pensionable staff. Possibility of retention on established staff in special cases, at £500 per annum (max.).

Written applications, with copies of not more than three recent testimonials, to the undersigned by 24th June. Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, B.3, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

Wingfield-Morris Orthopædic Hospital, OXFORD.

RESIDENT HOUSE SURGEON (Male) required for six months. Salary at the rate of £100 to £120 per annum.

Applications, with testimonials, should be sent to Professor G. R. GIRDLESTONE before July 7th, duties to commence in August.

Hull Municipal Maternity Home and INFANTS' HOSPITAL. (116 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER (Woman).

Applications are invited from unmarried or widowed Women Medical Practitioners for the appointment of Junior Resident Medical Officer at the above Institution.

Salary, £100 per annum, together with board, washing, and residence at the Maternity Home.

The appointment will be for six months, with a possible extension for a further period of six months.

Applications, on forms to be obtained from the undersigned, are returnable not later than Thursday, 22nd June, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Health Department, Guildhall, Hull, June, 1939.

The Royal Hospital, Sheffield, 1. (392 Beds.)

Applications are invited for :—

(1) OPHTHALMIC HOUSE SURGEON (Male). Salary £120 per annum, with board, residence, and laundry. The post becomes vacant on the 1st August, 1939, and applicants should be interested in ophthalmology.

On 7th July, 1939.

(2) HOLIDAY LOCUM (Male). May lead to permanency. Salary commencing at the rate of £80 per annum, with board, residence, and laundry.

W. H. BOOTH, Superintendent and Secretary.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of HONORARY ASSISTANT OBSTETRICIAN and GYNÆCOLOGIST. The successful candidate will have charge of gynæcological beds in the Infirmary, and of obstetrical beds in the Maternity Department.

Twenty-four copies of applications, with testimonials, must be sent to the undersigned not later than Saturday, June 24th, 1939.

A. G. E. SANCTUARY, Administrator.

June, 1939.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the EAR, NOSE AND THROAT DEPARTMENT, whose duties shall be to take such share in the work of the Department as shall be allotted to him by the Honorary Surgeon in charge of the Department.

The present Registrar will be an applicant for the post.

Twenty-four copies of applications, with testimonials, must be sent to the undersigned not later than Saturday, June 24th, 1939.

A. G. E. SANCTUARY, Administrator.

June, 1939.

Lancashire County Council.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER.

The Lancashire County Council invite applications from registered Medical Practitioners for the post of Assistant County Medical Officer.

Applicants must not be over forty years of age and must possess a Diploma in Public Health.

The duties of the post include the Medical Inspection of school-children; Maternity and Child Welfare work; general Public Health work; and such other duties as may from time to time be imposed by the County Council.

The candidate appointed will be required to devote his whole time to the service of the County Council, to pass a medical examination, and to contribute to the Council's Superannuation Fund. The salary will be £800 a year, rising, subject to satisfactory service, by annual increments of £50, to a maximum of £1,000 a year, together with travelling expenses.

The successful candidate may also be required to act as Medical Officer of Health of one or more County Districts in which case certain alterations in the conditions of service would be necessary.

Applications must be made upon a form which can be obtained, together with further particulars, from the County Medical Officer of Health, School Medical and Child Welfare Department, County Offices, Preston, to whom the completed forms should be returned not later than the 27th June, 1939. All communications must be endorsed "Assistant County Medical Officer."

Any form of canvassing is strictly forbidden and will disqualify.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, June, 1939.

Glasgow Royal Infirmary.

Applications are invited from Registered Medical Practitioners for the post of Whole-time RADIOLOGIST to take charge of X RAY DEPARTMENTS of Glasgow Royal Infirmary from 1st October next.

Full particulars may be obtained from the Interim Superintendent, Glasgow Royal Infirmary, 84, Castle-street, Glasgow, C.4.

Candidates are requested to lodge with the undersigned, not later than 24th June, 1939, fifteen copies of application and three relative testimonials. No canvassing.

R. MORRISON SMITH, Secretary and Cashier.

Royal Infirmary Office, 135, Buchanan-street, Glasgow, C.1.

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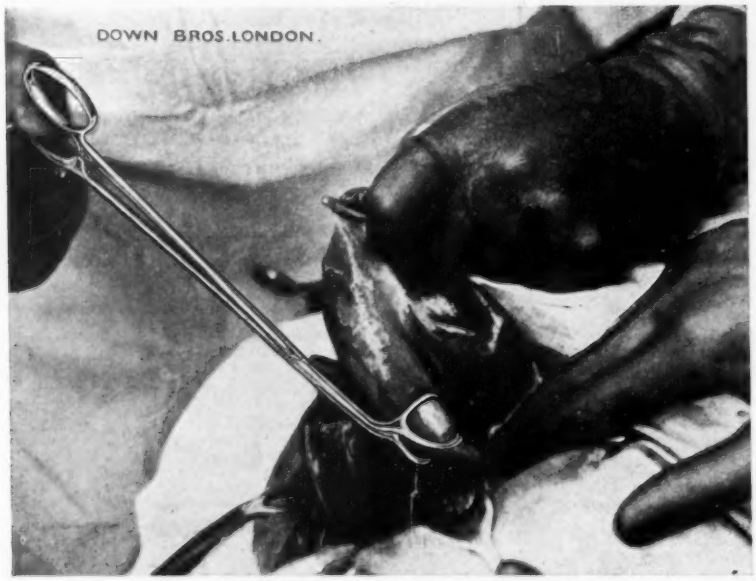

GALL-BLADDER LIFTING FORCEPS

BY

T. B. MOUAT
F.R.C.S.

Vide THE LANCET, *Nov. 12, 1938*

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The high germicidal efficiency of 'Dettol,' combined with its special properties of safety and convenience, have won for it a leading position in hospitals and private practice. 'Dettol' maintains its efficiency in the presence of blood and other organic matter, and can be used in high concentration thus giving a wider margin of safety. It is absolutely non-poisonous and non-staining, and possesses a distinctly pleasant smell.

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THE MODERN ANTISEPTIC

RECKITT AND SONS, HULL AND LONDON. (PHARMACEUTICAL DEPARTMENT, HULL)

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There are a full range of "Ardente" types—electrical and non-electrical, bone-conduction, granule, valve, and phantom—which are individually suited, after testing by Aurameter, to the needs of each case—no expense being incurred until hearing satisfactorily.

Particulars gladly sent and Tests are made at Aurists, Doctors' patients, Hospitals, or any of our addresses.

Medical Press Reports are interesting.

10 MEDALS, 5 DIPLOMAS.

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The Equitable Life Assurance Society

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During the past four years the K.L.M. Medical Service has shown that—with the single exception of sufferers from chronic heart disease—patients can successfully be transported by air when surface travel would be inadvisable. Over 60 patients were carried by K.L.M. during 1937—many to Switzerland and the Continental Spas. Invalids are carried by regular K.L.M. services or by specially chartered machines. Full particulars from K.L.M., Horseferry House, Horseferry Rd., S.W.1. Telephone: Victoria 8484. Also 66/68 Haymarket, S.W.1, and all leading Travel Agents.

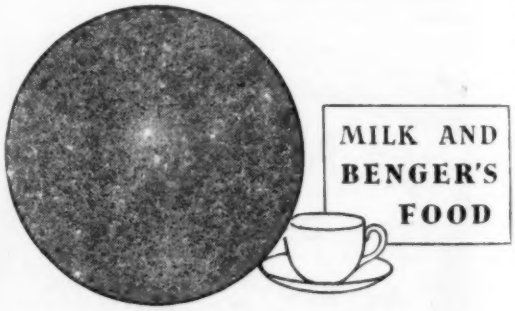
KLM ROYAL DUTCH AIR LINES

ILLUSTRATING

the Breakdown of Milk Protein

by Benger's Food

Milk, as soon as it comes in contact with the gastric juice, forms heavy curds. Many children and adults cannot properly digest these curds, and they cause pain and discomfort to persons with impaired digestion. For this reason many who most need milk are denied its great benefits.



As soon as hot milk is poured on to Benger's Food the active pancreatic enzymes, held dormant in its wheaten base become active. Within a very short period — less time than it takes the milk and Food to become cool enough to drink — the milk protein is modified so that only very finely divided curds can form upon contact with the gastric juice. At the same time the starch in the wheaten base of Benger's Food has been rendered soluble with the formation of dextrins, dextri-maltoses and maltose. By virtue of these active digestive enzymes Benger's Food, prepared with fresh milk, forms in the stomach finely divided flocculi, which present a huge surface area for digestion.

Sole Manufacturers: BENGER'S FOOD, Ltd., Holmes Chapel, Cheshire, Eng.

The Benger Laboratories are always at the disposal of the medical profession in any of their dietetic problems.

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SUPRARENAL CONCENTRATE CAPSULES

COLLATED CLINICAL EXPERIENCE HAS DEMONSTRATED THE VALUE OF SUPRARENAL CONCENTRATE MEDICATION IN THE SUCCESSFUL TREATMENT OF

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"GLANOID" SUPRARENAL CONCENTRATE IS AVAILABLE IN CAPSULE FORM FOR ORAL ADMINISTRATION

Supplied in bottles of 25, 50 and 100 2-grain capsules

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In childbirth, before and after delivery, Brand's Essence is recommended by doctors everywhere for conserving and restoring strength. Even in extreme weakness or exhaustion it is given with excellent results. Should pyrexia develop, Brand's Essence is the safe stimulant because it does not increase temperature. It is easily and quickly absorbed without putting the slightest strain on the system, no solids being formed during digestion. Its life-giving proteins are wholly assimilated within a few minutes, producing quick revival in strength. It does not cause thirst as it contains no irritant meat fibre or added salty matter.

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COMPOUND SYRUP OF HYPOPHOSPHITES

contains essential minerals: Iron, Sodium, Calcium, Potassium, Manganese and Phosphorus. A dependable formula prescribed with satisfaction for over 60 years. "FELLOWS" is a reliable product, manufactured under strict supervision and—with a consistency of quality that only the greatest care in manufacture can ensure.

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in

ALLERGIC DISORDERS

ASTHMA, HAY FEVER, &c.

The advantages of specific protein therapy over the more usually practised non-specific treatment has become increasingly recognised as the treatment of choice in such Allergic Disorders as Hay Fever, Asthma, Migraine, etc. Allergic Diagnostic Test Solutions-Duncan are issued in single or multiple group tests. The outfit illustrated contains a 2 cc. bottle of each Multiple Test and is found to be invaluable to the hospital consultant and general practitioner alike, providing him with a comprehensive, reliable testing outfit for Allergic Disorders.

PRICE AND LITERATURE ON APPLICATION

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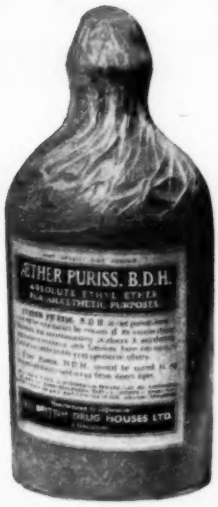

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for Safety and Satisfaction in Anæsthesia

A TYPICAL REPORT STATES :

'A good and smooth anæsthesia'

'In most cases no vomiting at all'

'Extraordinarily little discomfort even after two hours' administration'

Literature on request

THE BRITISH DRUG HOUSES LTD.
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ÆP/S/37

PROLACTIN

A & H

The Lactation-stimulating Hormone of the Anterior Lobe of the Pituitary Gland

Kurzrok, Bates, Riddle, and Miller, administered prolactin to 29 women in whom lactation had not developed adequately by the sixth day after childbirth. In 25 the daily production of milk was increased by 50 to 400 grm. In 3 of the 4 failures the total dosage was low. No adverse effect was noticed. Ross also had good results with prolactin.

The dosage now recommended is 5 c.cm., 5 c.cm., 2 c.cm., 2 c.cm., and 1 c.cm., of a solution containing 60 Riddle units per c.cm., injected subcutaneously on successive days. There is no indication of any reaction or untoward effects with this dosage.

Allen & Hanburys Ltd. have been preparing solutions of prolactin for about four years.

Prolactin, A. & H., containing 60 Riddle units per c.cm., is sold in vials of 15 c.cm. at 17/6 each.

Further particulars will be sent on request.

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PITIBULIN

Pituitary (Posterior Lobe) Extract

Trustworthy for

High Activity, Safety, and Stability

Some of its uses:

To hasten labour, usually in the second and third stages.

To raise the blood-pressure in collapse and shock.

To counteract intestinal paresis after operations, morphine poisoning, etc.

To counteract diabetes insipidus.

To counteract an overdose of insulin.

To relieve the pain of shingles.

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STILBŒSTROL-RICHTER

DIETHYL-STILBŒSTROL DI-PROPIONATE

Indicated in THE MENOPAUSAL SYNDROME. ATROPHIC CONDITIONS OF THE VAGINA AMENORRHOEA. DYSMENORRHOEA.

"SYNTESTRIN" FAITHFULLY IMITATES THE ACTION OF THE NATURAL PRODUCT AND IS HIGHLY ACTIVE WHEN ADMINISTERED ORALLY

● *REDUCED PRICES* ●

1 c.c. ***AMPOULES*** *for Intramuscular Injection, each containing, in oil solution:*

	1 c.c.	1 mgm.	1 c.c.	5 mgms.
Boxes of	1 Ampoule	10d.		1/–
" "	3 Ampoules	2/–		2/9
" "	6 "	3/3		5/–
" "	12 "	5/6		9/–

PRICES SUBJECT TO 10% MEDICAL DISCOUNT.

TABLETS*, each containing:*

	0.5 mgm.	1 mgm.	5 mgms.
Bottles of 25	2/3	3/–	8/3
" " 100	7/6	11/–	31/–

Also ***SUPPOSITORIES*** *and* ***OINTMENT***

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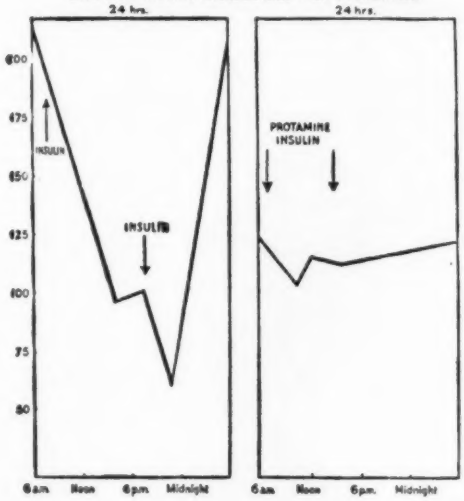
'A.B.' PROTAMINE INSULIN
BRAND

(with zinc) **SUSPENSION**

Effect of Insulin without and with Protamine



The absorption of insulin injected in the form of 'A.B.' Brand Protamine Insulin (with Zinc) Suspension is much prolonged and closely resembles the natural secretion of the pancreatic islets. This insulin has a steady action and exerts a better control than that of ordinary insulin over the carbohydrate metabolism. The number of injections can be reduced, a lower total dosage is usually necessary, and the subjective symptoms of diabetes markedly improve.

40 units per c.cm.
5 c.cm. (200 units) 2/4
10 c.cm. (400 units) 4/6

80 units per c.cm.
5 c.cm. (400 units) 4/6

INSULIN 'A.B.' was the first British insulin offered commercially to the medical profession, and has a world-wide reputation for its strictly safeguarded sterility, its carefully standardised strength, its freedom from toxic reactions and its stability in hot climates.

Full particulars will be sent free to members of the Medical Profession.

Joint Licensees and Manufacturers:

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The recently held National Conference on the wider aspects of Nutrition stressed the need for liberal supplies of protective foods in order to secure better nutrition and the maintenance of health.

Marmite has long been recognized as a valuable protective food by medical authorities. It is a foodstuff possessing an exceptionally high content of all the important factors of the vitamin B complex and is prescribed and used extensively for its health-promoting properties.

MARMITE for vitamin B complex

Sample and literature on request

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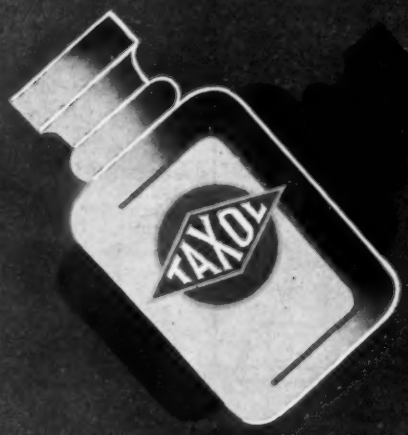

FORMULA

INTESTINAL GLAND EX...0gr. 05
BILIARY EXTRACT.....0gr. 10
AGAR AGAR.....0gr. 05
LACTIC FERMENTS....0gr. 05
Fiat Tablet 0.35grms.
INITIAL DAILY DOSE
2 Tablets.

TAXOL

BIOLOGICAL TREATMENT OF
CONSTIPATION
NON-HABIT FORMING

CONTINENTAL LABORATORIES LTD. 30. MARSHAM STREET, LONDON, S.W.1.

B.D.H. VITAMIN PRODUCTS

Name	Form	Indications	Daily Doses
Multivite (Vitamins A B_1 C D)	Pellets	General hypovitaminosis	2 to 4 pellets
Radio-Malt (Vitamins A B_1 B_2 D)	Confection	Malnutrition Hypovitaminosis	½ teaspoonful (infants) to 2 dessertspoonfuls (adults)
Radiostoleum (Vitamins A D)	Liquid Capsules	Rickets and dental defects Lowered resistance	6 to 15 drops (prophylactic) 15 drops to 2 teaspoonfuls (therapeutic) 1 to 3 capsules
Vitamin B_1 B.D.H.	Tablets Ampoules	Neuritis Intestinal atony Anorexia Beriberi	1 mg. to 10 mg.
Nicotinic Acid B.D.H. (P.P. factor)	Tablets	Glossitis Diarrhœa Pellagra	60 mg. to 1200 mg.
Ascorbic Acid B.D.H. (Vitamin C)	Tablets Ampoules	All pyrexial states Peptic ulceration Anæmia Cataract	25 mg. to 250 mg.
Phytoferol (Vitamin E)	Capsules	Habitual abortion Pregnancy toxæmia Deficient lactation Vulvo-vaginitis Sterility	1 to 6 capsules

Literature on request

THE BRITISH DRUG HOUSES LTD. LONDON N.1

VitPr/S/38)

★ PROSTATIC HYPERTROPHY

The treatment of this condition by the adequate administration of this Company's preparations of the prostate gland, either desiccated in capsules (" Opocaps ") for oral administration, or in solution in ampoules (" Opojex ") for hypodermic injection, has given excellent results in many cases.

Practitioners state that in conditions of frequency of micturition, retention, incontinence, and dysuria these preparations have proved so efficacious that surgical interference has been avoided in most cases.

It has been found that " Opocaps " and " Opojex " Prostatic are also of great value in the physical and mental disturbances following prostatectomy.

Clinical reports will be furnished on request.

℞ **"OPOCAPS" PROSTATIC (B.O.C.) gr. 3** (Oral)

Mitte - sig. 1 t.d.s., a.c. Supplied in boxes of 50 or 100 capsules.

℞ **"OPOJEX" PROSTATIC (B.O.C.)** (for injection)

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THE introduction of the "Veguva" System of Infant Feeding, which marks an important development, has been received with keen interest by the medical profession throughout the country. An examination of the system will amply confirm its very real advantages over the use of modified cows' milk mixtures and all ordinary types of milk foods.

The "Veguva" System comprises two foods:—

"Veguva" No. 1.—Milk food containing vegetable and fruit juices—for infants from birth.

"Veguva" No. 2.—Vegetable Adjuvant—for infants from four months.

Physiological tests show that "Veguva" Foods are rich in vitamins, easily assimilable organic iron and other important mineral salts which are essential to normal development and well-being and prevent the onset of deficiency disorders.

"Veguva" is packed by methods which effectively conserve the product and prevent any deterioration.

A booklet explaining in detail the "Veguva" System of Infant Feeding, together with clinical trial samples of "Veguva" Foods, will be sent on request.

Veguva BRAND

BABY FOODS

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M 291

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A solution to the problem of home preparation

THE markedly improved nutrition and successful tolerance by infants to strained vegetables and fruits is rapidly securing a universal popularity for this dietary.

In theory there is no more desirable way of meeting systemic acidity, nutritional anaemia and supplying dietary bulk for intestinal residue in a non-irritant form.

In practice, however, defects in the home preparation of purées retard or defeat the end in view. The vegetables used are not fresh, overmuch water or boiling in uncovered kettles reduces the mineral and vitamin content, and coarse sieving allows harsh fibre to pass.

PROTEIN	1·0
CARBOHYDRATES	5·7
CALCIUM	0·029
PHOSPHORUS	0·028
IRON	·0010
VITAMIN A	V.GOOD
VITAMIN B	GOOD
VITAMIN C	FAIR
VITAMIN G	FAIR
CALORIES PER OZ	8·0

CARROTS

A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)

In consequence there is a growing demand on the part of physicians and mothers for such a product that shall have the highest possible nutritive value, and complete uniformity. Their attention having been drawn to this, the H. J. Heinz Company decided that here was a legitimate extension of their services in view of their wide buying resources and long experience in the preparation of foods.

This company is accustomed to buying vegetables in those regions where they grow best, and to dealing with them within a few hours of their harvesting at the correct season of the year. This last is, of course, highly important.

The best factory practice is inevitably better than home preparation, however careful. After scrupulous cleaning, for example, vegetables are cooked in the Heinz factories under light steam pressure with exclusion of air until just soft enough to be comminuted by extrusion and cutting. The whole process is so regulated that the juices of the vegetables are retained throughout, there are no mechanical losses of mineral salts, vitamins or other soluble nutrients, and the resulting purée is adjusted to the proper consistence for satisfactory marketing.

Before filling and sealing, the product is subjected to a process for the removal of any absorbed air, and sealing takes place *in vacuo*. Finally, the sealed containers are immediately sterilised under known conditions of time and temperature. By these means are secured the high nutritional qualities, uniformity and convenience that physician, mother and patient desire.

NOTE.—Heinz Strained Foods are not packed in glass, for it has been found that light has an adverse action on vitamin content and palatability.

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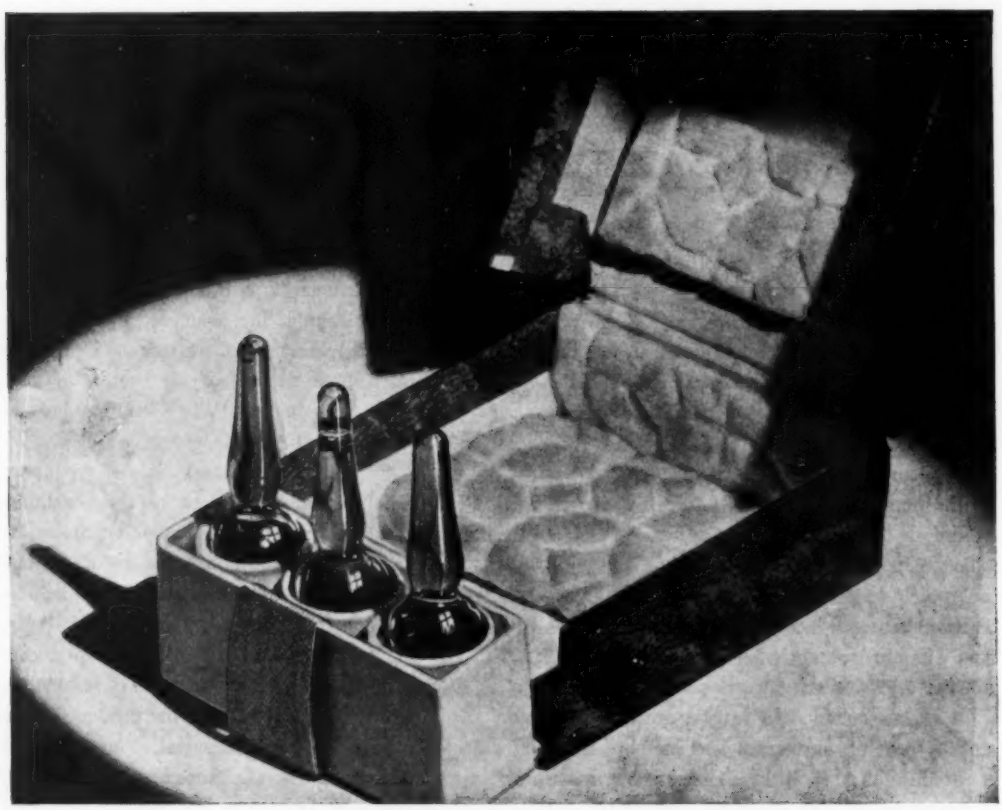
★ ***Fully explanatory literature and samples gladly sent on request. Or if desired a special representative will be happy to call.***

SPINACH
TOMATOES
CARROTS
VEGETABLE SOUP
PEAS
GREEN BEANS
MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS and APPLE SAUCE
BEEF & LIVER SOUP

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10



ANAHÆMIN B.D.H.

Anahæmin B.D.H. possesses two distinct characteristics:—

(a) **Dependability for clinical effect**—Each batch of Anahæmin B.D.H. is tested clinically, and reports of such tests demonstrating its hæmatopoietic activity are received before the product is issued; for example, in a recent test one patient receiving a dose of only 1 c.c. showed an increase of R.B.C. from 1.95 millions to 2.85 millions in ten days. Three further patients receiving 2 c.c. experienced an average rise in R.B.C. of 1.22 millions within ten days.

(b) **Economy in use**—Clinical evidence (*vide Lancet, February 15th,* 1936, *p.* 349 *and December 26th,* 1936, *p.* 1513, *also Med. Press & Circ., February 8th,* 1939, *p.* 156) demonstrates that 2 c.c. of Anahæmin produces effects comparable with those obtained by 10 c.c. of "less concentrated extracts."

Physicians desirous of making a trial with Anahæmin B.D.H. are invited to apply for a free supply

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An/S/58a

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TUBERCULIN PATCH TEST (VOLLMER)

Lederle

AMONGST the significant advances in tuberculin testing is Vollmer's development of the Tuberculin Patch Test. Prepared ready for immediate use, the test is applied like an ordinary strip of adhesive, left in place for 48 hours and the reaction is read 48 hours later.

The co-operation of the patient, as well as that of the family, may be readily secured since there is — no pain
— no traumatization of the skin
— no dread of the needle.

The area of reaction is sharply defined and does not spread.

The test when properly applied, is accurate; comparing favourably in this respect with the Mantoux test.*

No focal or general constitutional reactions have been reported following the application of this test.

The test is admirably suited to the testing of individuals or groups.

*Journal of Pediatrics, Oct. 1938, p. 510
British Medical Journal, April 22, 1939, p. 824

Available in packages of 1, 10 or 100 tests.

A PRODUCT OF THE LEDERLE LABORATORIES INC. NEW YORK

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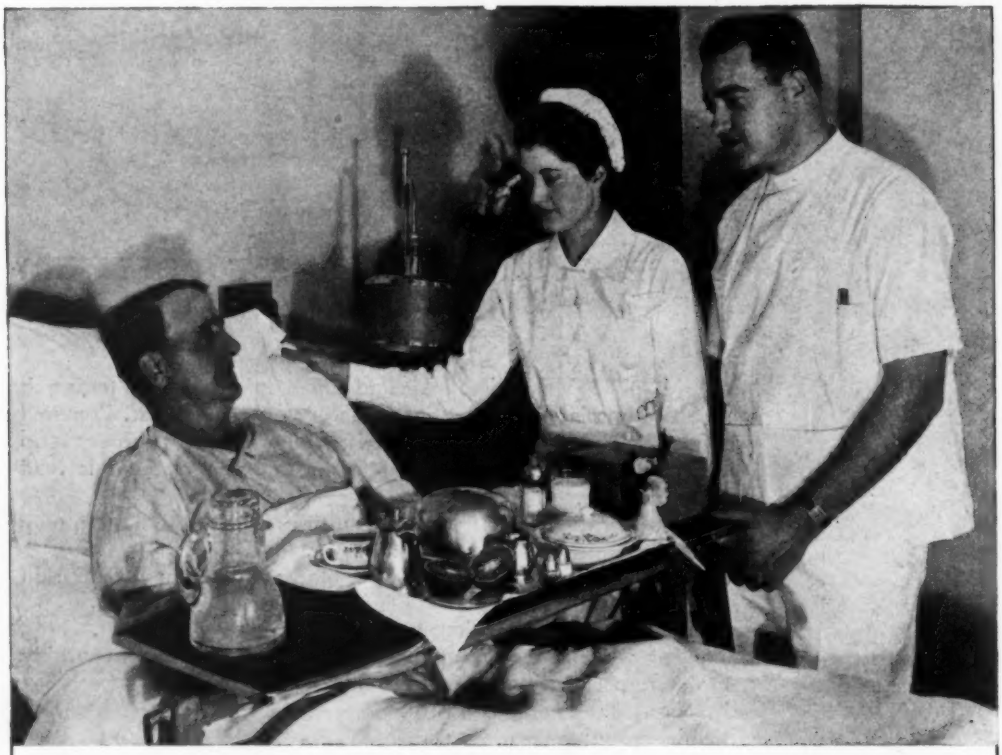

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● "Drugged sleep" as synonymous with "stuporous hypnosis" has most unpleasant implications. But a hypnotic is not infrequently a therapeutic necessity and a suitable barbiturate is often a useful choice to quiet overactive cerebral centres.

Modern hypnotics, such as 'Sodium Amytal' brand sodium iso-amyl ethyl barbiturate have made it possible to avoid many of the undesirable side actions usually ascribed to sedatives. Recommended in surgery, obstetrics, psychiatry, and in general medicine.

Supplied in 1-grain 'Pulvules' brand filled capsules in tins of 12, and in bottles of 40 and 500, and in 3-grain 'Pulvules' in tins of 10 and in bottles of 40 and 500.

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STREPTOCIDE

(Sulphanilamide Evans)

For Oral Administration

Numerous published reports give ample testimony to the value of Streptocide in

PUERPERAL FEVER

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and other infections due to the streptococcus.

		0.25 gm.	0.5 gm.
Bottle of	25 tablets	1/–	1/3 each
,,	100 ,, ...	3/3	4/– ,,
,,	250 ,, ...	7/–	8/9 ,,
,,	500 ,, ...	13/6	17/– ,,
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Boxes of	12 powders	2/6	3/3 ,,

Also available as Streptocide Ointment and Streptocide Cream for topical application.

Made by

Evans Sons Lescher & Webb Ltd.

Liverpool and London

GONAD STIMULATION THERAPY IN MENSTRUAL DISORDERS

ANTOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Antostab. Single ampoules and boxes of 6 ampoules.

ANTOSTAB is prepared from pregnant mares' serum and contains the follicle-stimulating factor which has a definite effect on the ovaries and in producing endometrial proliferation.

Clinical reports published in the *British Medical Journal*, 1937, November 6th, page 904, show that in cases of amenorrhoea, the menstrual cycle may be re-established by treatment with Antostab and that following treatment the menstrual rhythm continues normally.

PHYSOSTAB

Supplied in boxes containing ampoules of 100 mouse units, together with ampoules containing 1 c.c. of 0.90% Sodium Chloride Solution as a solvent for Physostab. Single ampoules and boxes of 6 ampoules.

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It is of value during the second half of the menstrual cycle when it stimulates the production of corpora lutea.

Successful results have been obtained with Physostab in the treatment of undescended testicles and of dystrophia adiposogenitalis

LITERATURE SENT ON REQUEST

BOOTS PURE DRUG CO. LTD.

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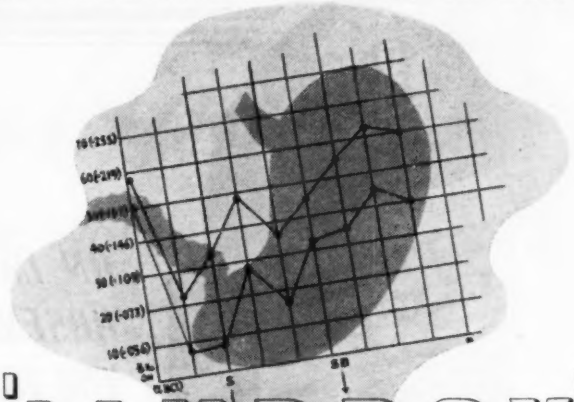
NEW THERAPY FOR THE TREATMENT OF PEPTIC ULCER.



'ALUDROX'

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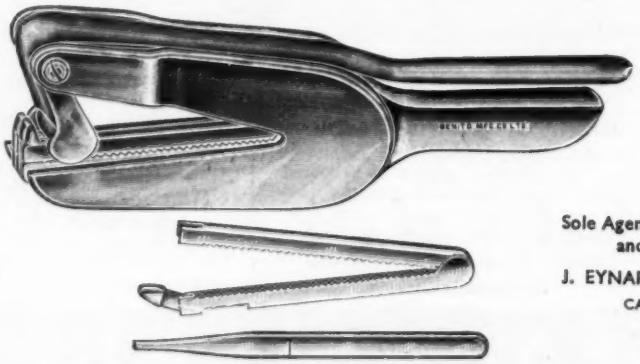

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PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms: 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

Separate Villa for patients suffering from the effects of alcoholism and drug addiction.

Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

Fully equipped gymnasium and indoor swimming pool under qualified instructors. Facilities under special recreational therapists for all indoor and outdoor games, including squash, badminton, table tennis, golf, cricket, football, hockey, lawn tennis, croquet, and bowling. The hospital has its own Church, Library, Cinema, and Café.

The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* **Dumfries 1119.**

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." **33, PECKHAM RD., LONDON, S.E.5.** Telephone: Rodney 4242 (2 lines.)

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds. Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: DR. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An Illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

SHAFTESBURY HOUSE

FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No.* 8 *Formby.*

PARK SANATORIUM

(FORMERLY SANATORIUM TURBAN)

DAVOS-PLATZ, SWITZERLAND

First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.– per day. Prospectus.

Medical Superintendent, F. BAUER, M.D.

CALDECOTE HALL

NUNEATON
WARWICKSHIRE

('Phone : Nuneaton 241)

Residential treatment of

"Nervous Disorders" & Alcoholism

(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Alcoholism and "Nerves" by psychotherapeutic and ancillary methods.

Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.

PENDYFFRYN HALL SANATORIUM

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 800 ft., and commanding extensive sea and mountain views. Central heating, electric light, X ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin-tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Rooms now available from 5 guineas weekly.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20.

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FIVE GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

RUSSELLS

Hemel Hempstead Road,
WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

EPPING HOUSE

LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply,* J. C. BAKER, M.B.

STRETTON HOUSE,

Church Stretton, Shropshire.

ESTABLISHED IN 1853.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

TOR-NA-DEE SANATORIUM

MURTLE, DEESIDE, ABERDEENSHIRE

FOR THE DIAGNOSIS AND TREATMENT OF ALL FORMS OF TUBERCULOSIS

Managing Director: **DAVID LAWSON**, M.D., F.R.S.E.

Southern aspect. Low rainfall. Pure bracing air. Sheltered grounds. Beautiful surroundings. All modern equipment for diagnosis and treatment, including operating theatre. **No extra charge for X Rays, Artificial Pneumothorax, Ultra-Violet Light, or other special treatment.**

Day and night Nursing Staff. All bedrooms have central heating, electric light, hot and cold running water, and wireless (head-phones). Comfortable and airy public rooms.

Medical Superintendent: J. M. JOHNSTON, M.B., M.R.C.S., D.P.H. For terms and prospectus apply to the Secretary.

Telephone: Cults 107.

NEW LODGE CLINIC,

WINDSOR FOREST.

New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a "team" of physicians and specialists.

All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, tropical diseases, and functional and organic nervous disorders.

Particulars can be obtained on application to

The Secretary, New Lodge Clinic, Windsor Forest, Berks. *Telephone:* **181 & 182 Winkfield Row**

EPILEPSY

Attendance at school is a necessary part of the satisfactory treatment of Epilepsy in Children.

COLTHURST HOUSE SCHOOL

meets all the requirements of children of middle-class parentage. Extensions made necessary by the success of the School have created several vacancies.

Only bright and intelligent boys and girls are eligible for admission.

Apply to the DIRECTOR, COLTHURST HOUSE SCHOOL, WARFORD, ALDERLEY EDGE.

ALCOHOLISM

Drug Habits, and Nervous Disorders

25 minutes from London, situated in charming grounds and country, is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron. RESIDENT MEDICAL SUPERINTENDENT, E. G. MORRIS, L.R.C.S.I., L.R.C.P.I.

CHISLEHURST 451

OLD HILL HOUSE

CHISLEHURST, KENT.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £3 5s. per week upwards.
2nd Class (men and women) 32/- per week.

For further particulars apply:
C. EDGAR GRISEWOOD, A.C.A., Secretary
20, Exchange Street East, Liverpool, 2

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—

Dr. ERNEST ROLLINS, Resident Physician.

Tel.: Amherst 1642.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD, *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

KINMEL HALL *Rheuma Spa*

Modern Spa Treatments, including Continental Piscany Mud, Scotch Douche and Birchner-Benner Diet, for Rheumatic and similar disabilities. Resident Physician. Excellent Recreational facilities. *Brochure from Secretary.*

ABERGELE - NORTH WALES

Smedley's

Great Britain's Greatest Hydro

Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc. *Resident Physicians:* GEOFFREY HOLMES, M.B. (Cambs.), B.Ch., Consultant. H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

Hospital of St. John and St. Elizabeth,

60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from August 1st, 1939. Salary at the rate of £100 per annum, with full board.

Applications, together with copies of three testimonials should reach the undersigned by 27th June.

F. DUDLEY HOBBS, B.A., Secretary.

The Willesden General Hospital,

Harlesden-road, N.W.10.

Applications are invited from fully qualified and registered candidates (unmarried) for the appointment of a Resident Officer, to hold the appointment of CASUALTY OFFICER for a period of three months from the 1st July, 1939, followed by a six months' appointment as HOUSE SURGEON. (Total nine months.)

Salary at the rate of £100 per annum with the usual residential emoluments.

Applications to be received by the Secretary not later than first post on Tuesday, 20th June, 1939.

Chelsea Hospital for Women, S.W.3.

There will be a vacancy for an ANÆSTHETIST in the early part of July.

Applications are invited from duly registered Medical Men not engaged in general practice, who must have had training and experience in the various methods of administration of anæsthetics.

Sessions will be Fridays, morning and afternoon, and two Wednesday afternoons in February, June, and October. Honorarium 30 guineas.

Applications, accompanied by copies of testimonials, must reach the undersigned by first post on Friday, 30th June.

GEORGE W. COOLING, Secretary.

Royal College of Physicians of London.

PROPHIT TUBERCULOSIS SURVEY.

The Royal College of Physicians proposes to appoint an ASSISTANT PROPHIT SCHOLAR to coöperate with the present Scholar in the conduct of a Survey into the incidence and progress of Tuberculosis in selected sections of the community, by clinical examination and tuberculin testing, over a period of years. Radiological examinations will also be carried out, but not necessarily by the Scholar. Medical qualification and clinical experience are required, but special experience in Tuberculosis is not essential.

The Scholarship will be renewable from year to year. The appointment will be a part-time one at £250 per annum with an allowance for expenses, and will start in the autumn of 1939.

Applications, which must be received before June 28th, 1939, should be addressed to the Assistant Registrar, Royal College of Physicians, Pall Mall East, London, S.W.1.

Woolwich and District War Memorial

HOSPITAL, Shooters Hill, London, S.E.18.
(General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as Casualty Officer for six months from July 1st, 1939. Remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as Deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, June 26th, and short-listed candidates will be invited to meet the Appointments Committee on Friday, June 30th, 1939.

R. S. G. HUTCHINGS, Secretary.

London County Council.

Applications invited from MEDICAL PRACTITIONERS of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) BETHNAL GREEN HOSPITAL, Cambridge-road, E.2.—(Two positions).—(1) Surgical duties. (2) General duties, gynæcological and obstetric experience desirable.

(*b*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12.—Obstetric and gynæcological duties.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

*(*c*) HACKNEY HOSPITAL, Homerton High-street, E.9.—(Two position).—(1) Medical duties, casualty department and anæsthetics. (2) Medical duties.

*(*d*) QUEEN MARY'S HOSPITAL, Sidcup, Kent.—Duties mainly medical (male convalescent hospital). Surgical experience desirable.

* No accommodation for a woman.

(*e*) ST. PANCRAS HOSPITAL, 4, St. Pancras Way, N.W.1.—Duties mainly medical, experience in anæsthetics desirable.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 2), County Hall, S.E.1, returnable by 26th June.

Canvassing disqualifies.

London County Council.

Part-time MEDICAL OFFICER (Male) required at ONGAR RESIDENTIAL SCHOOL FOR MENTALLY DEFECTIVE BOYS, ONGAR, ESSEX. (Accommodation 256.) Candidates must be registered Medical Practitioners and reside within easy reach of the school. Salary £130 a year.

Forms, details of appointment, from Education Officer (S.S.5), County Hall, S.E.1 (stamped addressed foolscap envelope) must be returned by 30th June. Canvassing disqualifies.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of September, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 31st August, 1939.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

PATHOLOGIST AND CURATOR.

Applications are invited for the office of Whole-time Pathologist and Curator. Candidates must be registered Medical Practitioners.

Salary will commence at the rate of £650, rising to £900 per annum, which salary will be augmented by fees from private work at the Hospital.

The post is a newly created one and it is hoped that the successful applicant will make the position of such value to the Hospital in research, and to the Medical School in teaching, that he will hold it for many years.

The routine duties will consist in the examination of and reporting upon pathological specimens and the teaching of Ophthalmological Pathology. Facilities will be available for biochemical investigations and research.

The Curator is responsible for the upkeep and preservation of the museum and library.

The Pathologist and Curator will be appointed for one year and will be eligible for reappointment yearly.

Candidates are requested to send copies of their application and testimonials (which need not be printed) to the acting Medical and Surgical Staff, whose names and addresses can be obtained on application to the Secretary.

A copy of the Regulations governing the post will be sent on application.

Applications, stating age, with copies of testimonials, must be received not later than 23rd June, 1939.

A. J. M. TARRANT, Secretary.

University College Hospital Medical
SCHOOL.

RADCLIFFE CROCKER TRAVELLING SCHOLARSHIP IN DERMATOLOGY.

The Committee of University College Hospital invite applications for the Radcliffe Crocker Travelling Scholarship in Dermatology.

The Scholarship is of the approximate value of £280, tenable for a period of twelve months, to be spent at some place of study named by the School Committee, outside of the United Kingdom.

Candidates must be British subjects, students of a London Medical School, and graduates of a University in the United Kingdom.

Applications must be submitted on or before 30th June, 1939.

For further particulars apply to the Dean, University College Hospital Medical School, University-street, London, W.C.1.

R. SLOLEY, Secretary.

Royal Army Medical Corps.

Vacancies exist for the appointment of qualified Medical Men between the ages of 30 and 45 years to Temporary COMMISSIONS in the Royal Army Medical Corps for periods of one and three years respectively.

Candidates must be British subjects of European descent, and the sons of British subjects, and must be duly registered under the Medical Acts in force in the British Isles.

Appointment will be made in the rank of Lieutenant and the remuneration will be the same as for a Lieutenant in the Regular R.A.M.C. In addition a gratuity at the rate of £100 per annum will be payable on satisfactory completion of contract.

On completion of one year's satisfactory service those engaged on a three years' contract will be eligible for promotion to Captain with the pay and allowances appertaining to that rank. Those engaged on a one-year contract and retained beyond that period will become eligible for similar promotion.

Those engaged on a three years' contract must undertake an obligation to serve abroad, if required.

Further particulars can be obtained by application in writing to the Assistant Director-General, Army Medical Services (A.M.D.1), War Office, Whitehall, S.W.1, and interviews will be readily granted, if required.

These appointments in no way affect the normal appointments to Short Service Commissions open to medical men up to 30 years of age.

London Hospital, E.1.

Applications are invited for the post of MEDICAL FIRST ASSISTANT and REGISTRAR. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Candidates must be fully qualified medically.

Applications should arrive at the Hospital not later than by the first post on Saturday, 15th July.

Further particulars may be obtained from the House Governor.

ARTHUR G. ELLIOTT, House Governor.

St. Mark's Hospital for Cancer, Fistula,
AND OTHER DISEASES OF THE RECTUM,
City-road, London, E.C.1.

Applications are invited for the post of HOUSE SURGEON (Male). Salary £120 per annum, with board, residence, and laundry. The appointment is for a minimum of six months.

Applications, with copies of testimonials, must reach the Secretary of St. Mark's Hospital (from whom further particulars may be obtained) not later than Monday, 26th June, 1939.

The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the following posts:—

HOUSE PHYSICIAN, 1st, 2nd and 3rd HOUSE SURGEONS, OBSTETRIC ASSISTANT.

The posts are for six months commencing 1st August, 1939. Remuneration at the rate of £50 per annum with board, residence, and laundry.

Further particulars of the posts may be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 30th June.

The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the honorary post of FIRST ASSISTANT to OBSTETRIC DEPARTMENT (non-resident). Yearly appointment, maximum three years. Duties to commence in June.

Further particulars of the post can be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 30th June.

British Postgraduate Medical School.

There are three vacancies for HOUSE SURGEONS to the Surgical Unit, British Postgraduate Medical School, Hammersmith Hospital. The appointments are for six months and are not renewable. Salary £105 per annum, with board, residence, and laundry. Duties to commence on 1st July, 1939.

Duties are mainly in General Surgery, but one appointment is to the Department of Traumatic and Orthopædic Surgery. Applicants must have held a previous House appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Monday, June 26th, 1939.

The Nelson Hospital, Merton, S.W.20. (84 Beds.)

RESIDENT HOUSE SURGEON (Male, unmarried) required 1st July, 1939, for duties in connexion with Men's and Children's Wards—share casualty work.

Appointment for six months in first instance. Salary at rate of £150 per annum, plus usual allowances and fees earned.

Candidates must be British by nationality and birth.

Applications, with copies of recent testimonials, should be sent to the Secretary forthwith.

St. Mary's Hospital for Women AND CHILDREN, Plaistow, E.13.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN, vacant July 17th, Male or Female. The appointment is for six months. Board and residence are provided. Salary at the rate of £150 per annum, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than June 27th.

A. ERNEST WILKES, Secretary.

Golden Square Throat, Nose and Ear HOSPITAL, London, W.1.

Applications are invited for the post of CLINICAL ASSISTANT.

Applications, stating age, qualifications, and experience, and with copies of three testimonials, should reach the undersigned, from whom copies of the rules may be obtained, on or before June 24th, 1939.

JOHN H. YOUNG, Secretary-Superintendent.

Royal Chest Hospital, City-road, E.C.1. (Royal Northern Group of Hospitals.)

Applications are invited for the following post—

HOUSE PHYSICIAN (Male). Vacant 1st August for a period of six months. Salary at the rate of £100 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by the 30th June to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal Northern Hospital, Holloway, London, N.7.

Princess Elizabeth of York Hospital FOR CHILDREN, Shadwell, London, E.1. (Formerly East London Hospital for Children.) (135 Beds.)

A CASUALTY OFFICER is required on 1st July, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Tuesday, 20th June, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

West London Hospital, Hammersmith, W.6. (239 Beds.)

A vacancy for the post of CHIEF CLINICAL ASSISTANT in the X RAY (DIAGNOSTIC) DEPARTMENT occurs on 11th July. Salary at the rate of £125 a year. The appointment in the first instance is for a period of twelve months and, subject to re-election, may be continued for further periods. Candidates must be duly qualified registered Medical Practitioners and have had experience of Radiological work, especially X Ray diagnosis.

Attendance of four sessions a week will be required.

Applications, accompanied by copies of testimonials, must reach me not later than Tuesday, 4th July. Candidates must attend a meeting of the Medical Council at 4.30 P.M. on Friday, 7th July. The appointment will be made by the House Committee at a meeting at 5 P.M. the same day.

H. A. MADGE, Secretary.

Royal London Ophthalmic Hospital (MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of OUT-PATIENT OFFICER, to attend on Wednesdays and Saturdays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £150 per annum. The Out-patient Officer will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 30th June, 1939.

A. J. M. TARRANT, Secretary.

St. Thomas's Hospital.—Vacancy.

The appointment of HONORARY NEURO-SURGEON. Candidates must be fellows of the Royal College of Surgeons and specialise in surgery of the nervous system.

Applications, together with full details of academic career and testimonials, should be sent to the Clerk to the Governors on or before July 3rd.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointments of CASUALTY OFFICER and SECOND HOUSE SURGEON (Males), tenable for six months from the 1st July, 1939. Salary £100 per annum.

Applications, with copies of testimonials, should be addressed to the undersigned as soon as possible.

J. C. GILBERT, Secretary-Superintendent.

The British Hospital for Functional MENTAL AND NERVOUS DISORDERS (FORBES WINSLOW MEMORIAL), 72, Camden-road, N.W.1.

Applications are invited for the appointment of HONORARY PHYSICIAN to The British Hospital for Functional Mental and Nervous Disorders. Candidates must hold the Diploma in Psychological Medicine and their applications (eight copies) must be received by the undersigned by the 26th June, 1939.

DENIS G. WILLIAMS, Secretary.

Hospital for Tropical Diseases.

The Committee of Management of the Seamen's Hospital Society invite applications for the appointment of OPHTHALMIC SURGEON. Candidates should hold a Diploma in Ophthalmology and have experience of Ophthalmic work in the tropics.

The elected candidate will be appointed for twelve months but will be eligible for re-election.

Applications, with copies of not more than three testimonials, to be sent in on or before July 22nd, to the Secretary, Hospital for Tropical Diseases, 25, Gordon-street, W.C.1.

June 12th, 1939.

Contraceptive Clinic, Finsbury district,

requires MEDICAL OFFICERS for evening sessions, Mondays and Wednesdays. Salary 1½ guineas. Good experience essential.—Apply, Medical Officer, Cecile Booysen Clinic, 39, Spencer-street, E.C.1.

The Army Dental Corps.

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for Admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

The Army Dental Corps.

Vacancies exist for the appointment of DENTAL SURGEONS between the ages of thirty and forty-five years to temporary commissions in the Army Dental Corps for a period of one year for service in Great Britain and Northern Ireland.

Candidates must be British subjects of European descent, and the sons of British subjects and must be duly registered under the Dentists' Acts or Medical Acts in force in Great Britain and Northern Ireland.

They will be required to present themselves in London for interview and physical examination.

Appointments will be made in the rank of Lieutenant and the remuneration will be the same as for a Lieutenant in the Army Dental Corps, Regular Army. In addition, a gratuity at the rate of £8 6s. 8d. for each completed month of service will be payable on satisfactory completion of contract.

On completion of one year's satisfactory service, those retained beyond that period will be eligible for promotion to Captain with the pay and allowances appertaining to that rank.

Further particulars can be obtained by application in writing to the Director, Army Dental Service (A.M.D.6), War Office, Whitehall, London, S.W.1, and interviews will be readily granted, if required.

Westminster Hospital,

St. John's-gardens, S.W.1.

RESIDENT HOUSE ANÆSTHETIST required for duty commencing the 1st of August, 1939. Salary £50 per annum. The appointment is for six months in the first instance.

Applications should be addressed to the undersigned on or before 23rd of June, 1939.

By order of the House Committee.

CHARLES M. POWER, Secretary.

Westminster Hospital,

St. John's-gardens, S.W.1.

Required immediately RESIDENT HOUSE SURGEON to the IRRADIATION DEPARTMENT for a period of six months. Salary at the rate of £50 per annum. Apply to the undersigned.

CHARLES M. POWER, Secretary.

Hospital for Tropical Diseases,

Gordon-street, W.C.1. (Seamen's Hospital Society).

Three HOUSE PHYSICIANS (Male) required for six months, two as from 1st August, 1939, and one as from 1st September, 1939. Salary £120 per annum, with board, residence, and laundry.

Applications, stating age and nationality with copies of three testimonials, to be sent in on or before July 7th to the undersigned.

D. A. C. PRICE, Secretary.

Hospital for Tropical Diseases, 25, Gordon-street, W.C.1.
12th June, 1939.

Battersea Borough Council.

DEPUTY MEDICAL OFFICER OF HEALTH AND TUBERCULOSIS OFFICER (Male).

Applications are invited for the appointment of Deputy Medical Officer of Health and Tuberculosis Officer for the Borough, at an inclusive salary of £825 per annum, rising by annual increments of £25 to £1000 per annum. Candidates must possess a qualification in Public Health.

Forms of application, which contain full particulars of the appointment, may be obtained from me on sending a stamped addressed envelope.

Applications upon the prescribed form must be received by me by 12 noon, Friday, the 30th June, 1939.

R. G. BERRY, Town Clerk.

Battersea Town Hall, London, S.W.11, June, 1939.

Royal Infirmary, Bradford.

(REGIONAL RADIUM CENTRE).

HOUSE PHYSICIAN to the RADIUM AND SKIN DEPARTMENTS wanted at once. Six or twelve months' appointment.

Salary £200 per annum, with board, residence, and washing.

Applications, stating age, qualifications and previous experience (not necessarily in Radiotherapy), with copies of recent testimonials, should be sent to the undersigned as soon as possible.

H. TRUSSON, House Governor and Secretary.

June 13th, 1939.

Royal Sheffield Infirmary and Hospital.

DEPARTMENT OF RADIOLOGY

Applications are invited for a whole-time

(1) FIRST ASSISTANT at a salary of £500 per annum. Candidates must be registered and possess a special qualification in Radiology. Preference will be given to those candidates who have held a resident appointment in a General Hospital.

(2) CLINICAL ASSISTANT at a salary of £300 per annum. Candidates must be registered Medical Practitioners. The possession of a special diploma in Radiology is not essential, but the post offers opportunities for those who wish to specialise in Radiology.

Applications to be forwarded to :—

W. H. BOOTH, Secretary.

THE ROYAL MEDICAL FOUNDATION OF EPSOM COLLEGE

ANNUAL GENERAL MEETING.
16th June, 1939.

RESULT OF ELECTION.

At the Meeting of the CONJOINT COMMITTEE, held on 31st May, 1939, the following candidates were elected to FOUNDATION SCHOLARSHIPS and PENSIONS :—

FOUNDATION SCHOLARSHIPS:

BAIN, DOUGAL
COWPER, WILLIAM P. M.
CURRIE, JOHN L.
MCCROSSAN, THOMAS A. J.
SCOTT, THOMAS G.
SERGEANT, DAVID E.
SMERDON, GEOFFREY H.

PENSIONS:

Ordinary and "Dr. Strong" Pension (£40 per annum): SPEIRS, Mrs. MARY A.

A "Morgan" Annuity (£24 per annum, together with a "Highett" Pension £10 per annum): STEWARD, Miss ADA M.

Educational Grants from the SHERMAN BIGG FUND were awarded, as under :—

£40 to THOMAS W. DEAN (aged 11);

£24 each to: RICHARD N. AUSTIN, aged 16; JOHN BROWN, aged 14; ALAN D. CLARK, aged 12; DOUGLAS D. GLENNIE, aged 10; CHARLES P. MOXON, aged 14; ALAN W. SCROGIE, aged 15; PETER A. WATKINSON, aged 15; MONICA CANDY, aged 16; and MARGARET WALKER, aged 17;

£15 each to: RONALD ALLAN, aged 14; BARBARA MOORE, aged 21; and ELIZABETH SWAN, aged 11.

A Grant of £30 from the Bowen Fund income was recommended for ANTONY PARRY, aged 17.

REGINALD L. LANGDON-DOWN,
Chairman of the Conjoint Committee.
W. L. GIFFARD (Major), Secretary.

University of Glasgow.

MACEWEN MEMORIAL LECTURE.

The FIFTH LECTURE under the above Foundation will be delivered by Professor GEORGE GREY TURNER, M.S., D.Ch., F.R.C.S., &c., Director of Surgical Unit, British Postgraduate Medical School, London, on Tuesday, 20th June, 1939, at 4.15 o'clock P.M., in the SURGERY LECTURE ROOM, THE UNIVERSITY.

Subject:

"THE MACEWEN OUTLOOK IN SURGERY"
(With LANTERN ILLUSTRATIONS).

The Lecture is open to Past and Present Students of Medicine and to others interested. Subscribers to the Foundation Fund are specially invited.

June, 1939.

Royal Asylum, Montrose.

Applications are invited for the post of THIRD ASSISTANT MEDICAL OFFICER (Male). Salary commencing at £300 per annum, from which there are no deductions, with board, apartments, and laundry. Opportunity will be given to take the course for the Diploma of Psychiatry and it is desirable that candidates should have an interest in Pathology.

Applications should be sent to the Medical Superintendent before 28th June.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned.

J. R. MACKRILL, Secretary.

Rotherham Hospital.

(130 Beds.)

CASUALTY HOUSE SURGEON.

Applications are invited from qualified men for the post of Casualty House Surgeon. Duties to commence as soon as possible, will include work in the EAR, NOSE, AND THROAT DEPARTMENT. Excellent experience to be gained in the treatment of fractures. Salary £150 per annum, with full board, residence, and laundry.

Applications, with copies of recent testimonials, should be sent to the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham, Yorks.

City of Lincoln.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment of Resident Medical Officer (Male) unmarried at the CITY HOSPITAL AND SANATORIUM, LINCOLN, for a period of twelve months. Salary £300 per annum, with board, lodging and laundry.

Applications must be made on the prescribed form not later than 24th June, 1939.

Forms of application and further particulars of appointment may be obtained from the Medical Officer of Health, Beaumont Fee, Lincoln.

G. H. BANWELL, Town Clerk.

Corporation Offices, Lincoln, 5th June, 1939.

Middlesex County Council.

NORTH MIDDLESEX COUNTY HOSPITAL,
Silver-street, Edmonton, N.18.

PHYSICIAN (Grade II).* Registered Medical Practitioner (Man or Woman) of high qualifications and professional attainments devoting time chiefly to practice of clinical medicine. General hospital with over 1300 beds and 16,000 admissions yearly, largely acute medical. Whole-time duties, under direction of Medical Superintendent, may include teaching students, &c. Required to reside near hospital. Salary, £650–£50–£1000 per annum, is inclusive and any fees received to be paid to the Council. Appointment subject to three months' notice. Apply as below by 1st July.

OBSTETRICIAN (Grade II).* Registered Medical Practitioner of high qualifications and professional attainments having devoted time chiefly to the practice of obstetrics and gynæcology. Whole-time duties under supervision of Medical Superintendent may include teaching students, &c. Required to reside near hospital. Salary £650–£50–£1000 per annum, is inclusive and any fees received to be paid to the Council. Appointment subject to three months' notice. Apply as below by 24th June.

REDHILL COUNTY HOSPITAL, EDGWARE, MDX.
(AMENDED ADVERTISEMENT).

VISITING ELECTRO-THERAPIST. Registered Medical Practitioner preferably with D.M.R.E., engaged chiefly in practice of this specialty. One session weekly at three guineas each. Appointment, on unestablished staff, subject to one month's notice. Apply as below by 24th June.

HAREFIELD SANATORIUM, Nr. UXBRIDGE, MDX.

Resident ASSISTANT MEDICAL OFFICER. Single Men having held resident appointments in general hospitals, with practical experience in diagnosis and treatment of tuberculosis. Whole-time duties under supervision of Medical Superintendent. Salary £400–£25–£475 per annum, with board, lodging, and laundry. Appointment for four years only, is subject to one month's notice. Medical examination in connexion with pensionable staff. Possibility of retention on established staff in special cases, at £500 per annum (maximum). Apply as below by 24th June.

ASSISTANT DENTAL OFFICER.* Registered DENTAL SURGEON, fully qualified. Whole-time duties under supervision of County Medical Officer and Senior Dental Officer include dental inspection and treatment of school-children and women and young children under Maternity and Child Welfare Scheme. Private practice not allowed. Salary £500–£25–£700 per annum, with travelling expenses while on duty. Apply as below by 1st July.

HILLINGDON COUNTY HOSPITAL,
Nr. UXBRIDGE, MDX.

Resident CASUALTY MEDICAL OFFICER. Registered Medical Practitioner with good all-round experience, preferably of casualty work. Whole-time duties under direction of Medical Superintendent include dealing with casualties and admissions to hospital, &c. Appointment, subject to medical examination and one month's notice, is primarily for six months but may be extended for further six. Preservation of pension rights under certain Acts. Salary £350 per annum, with board, lodging, and laundry. Apply as below by 1st July.

* Established and pensionable staff, subject to medical examination.

Written applications, giving age, qualifications, and experience, with copies of not more than three recent testimonials, to the undersigned. Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

County Borough of Dewsbury.

MATERNITY HOSPITAL.
(27 Beds.)

Applications are invited from Male or Female registered Practitioners (single) for the appointment of RESIDENT ASSISTANT MEDICAL OFFICER in the MATERNITY AND CHILD WELFARE DEPARTMENT, at a salary of £350 rising by £25 to £550 per annum, with emoluments valued at £150.

The person appointed will be required to reside in the Municipal Maternity Hospital, to take ante-natal and post-natal clinics, and to undertake any other duties in the department that may be required.

Candidates must have held previous hospital appointments, and post-graduate experience in midwifery is essential. Higher qualifications in midwifery or the D.P.H. are desirable.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, endorsed "Resident A.M.O.H.," together with copies of not more than three recent testimonials, should be forwarded to the Medical Officer of Health, Municipal Buildings, Halifax-road, Dewsbury (from whom such forms of application may be obtained), not later than Friday, June 23rd.

HOLLAND BOOTH, Town Clerk.

Town Hall, Dewsbury, 6th June, 1939.

Wingfield-Morris Orthopædic Hospital,
OXFORD.

RESIDENT HOUSE SURGEON (Male) required for six months. Salary at the rate of £100 to £120 per annum.

Applications, with testimonials, should be sent to Professor G. R. GIRDLESTONE before July 7th, duties to commence in August.

Wingfield-Morris Orthopædic Hospital,
HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.

Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Residence to commence about November 15th. Some Orthopædic experience essential.

Information can be obtained from, and application before October 7th should be made to, Professor G. R. GIRDLESTONE.

Aberdeen Royal Infirmary.

RADIUM CENTRE.

The Directors invite applications for appointment to the position of SURGEON in charge of Radium Therapy. Salary £800 per annum.

Further particulars may be obtained from the undersigned, with whom applications and testimonials (six copies of each) should be lodged not later than 10 A.M. on 20th June, 1939.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen, 6th June, 1939.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of HONORARY ASSISTANT OBSTETRICIAN and GYNÆCOLOGIST. The successful candidate will have charge of gynæcological beds in the Infirmary, and of obstetrical beds in the Maternity Department.

Twenty-four copies of applications, with testimonials, must be sent to the undersigned not later than Saturday, June 24th, 1939.

A. G. E. SANCTUARY, Administrator.

June, 1939.

The Radcliffe Infirmary, Oxford.

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the EAR, NOSE and THROAT DEPARTMENT, whose duties shall be to take such share in the work of the Department as shall be allotted to him by the Honorary Surgeon in charge of the Department.

The present Registrar will be an applicant for the post.

Twenty-four copies of applications, with testimonials, must be sent to the undersigned not later than Saturday, June 24th, 1939.

A. G. E. SANCTUARY, Administrator.

June, 1939.

The Children's Hospital, Sheffield.
(157 Beds.)

HOUSE PHYSICIAN required immediately. Salary £100 per annum, with board, residence and laundry.

Candidates (Male and unmarried), who must possess registered qualifications, should forward applications, stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Bedfordshire County Council.

ASSISTANT MEDICAL OFFICER OF HEALTH,
MATERNITY AND CHILD WELFARE (FEMALE).

Applications are invited for the above appointment. Applicants must be registered Medical Practitioners, possess the Diploma in Public Health and subsequent to qualification have had at least three years' experience in the practice of their profession and special experience in practical midwifery, ante-natal, and maternity and child welfare work.

The person appointed will be required to devote the whole of her time to the duties assigned to her and not to engage in private practice.

The Officer, who will be under the direction of the County Medical Officer of Health, will be required to perform such other duties as the Council may direct.

Salary £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum, together with a travelling allowance of £170 per annum.

The appointment will be subject to the successful candidate passing a medical examination and to the provisions of the Local Government and Other Officers' Superannuation Act, and will be terminable by three months' notice to be given by either side on any date.

Further particulars can be obtained from the County Medical Officer of Health, Shire Hall, Bedford.

Applications, stating age, qualifications, and previous experience, accompanied by copies of three recent testimonials, and endorsed "Assistant Medical Officer (Female)" should reach the undersigned not later than Monday, 26th June, 1939.

J. B. GRAHAM, Clerk of the County Council.

Shire Hall, Bedford, June, 1939.

Royal East Sussex Hospital, Hastings.

Applications are invited for the post of JUNIOR HOUSE SURGEON (Female) vacant 1st July, 1939. The appointment is for a period of six months. Salary at the rate of £150 per annum with board-residence.

Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary by June 19th.

WILFRID G. KEMSLEY.

Barbados General Hospital.

(275 Beds.)

Wanted, a duly qualified whole-time RADIOLOGIST, who shall be a registered Medical Practitioner, with Hospital experience of X Ray Therapy.

Salary £800 per annum, without quarters or private practice.

The appointment, which is pensionable and renewable, is for three years, subject to three months' notice on either side to terminate the engagement.

Twenty-eight days' leave a year on full pay.

First-class passage by sea direct to Barbados will be paid by the Hospital Board, and, in the event of the successful applicant being married, the Board will assist with the passages of this Officer and his family to the extent of a sum not exceeding £100. In case of service for less than three years a proportionate part of the passage money is to be refunded except he shall have relinquished his engagement on a medical certificate of ill health due to service.

The work required of the Radiologist is to take charge of the existing diagnostic X Ray equipment and to open an electrical Therapy Unit.

Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be received up to 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order.

W. GOODMAN, Secretary.

Barbados General Hospital.

Wanted, a duly qualified Medical Practitioner, Male, single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of the Barbados General Hospital (275 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period.

Applications must be accompanied by a photograph, a medical certificate of physical fitness at the time of application, recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in administering modern anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 beds, or of a Post-graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registrable in the State of New York.

Applications will be closed on 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By order.

W. GOODMAN, Secretary.

Lancashire County Council.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER.

The Lancashire County Council invite applications from registered Medical Practitioners for the post of Assistant County Medical Officer.

Applicants must not be over forty years of age and must possess a Diploma in Public Health.

The duties of the post include the Medical Inspection of school-children; Maternity and Child Welfare work; general Public Health work; and such other duties as may from time to time be imposed by the County Council.

The candidate appointed will be required to devote his whole time to the service of the County Council, to pass a medical examination, and to contribute to the Council's Superannuation Fund. The salary will be £800 a year, rising, subject to satisfactory service, by annual increments of £50, to a maximum of £1,000 a year, together with travelling expenses.

The successful candidate may also be required to act as Medical Officer of Health of one or more County Districts in which case certain alterations in the conditions of service would be necessary.

Applications must be made upon a form which can be obtained, together with further particulars, from the County Medical Officer of Health, School Medical and Child Welfare Department, County Offices, Preston, to whom the completed forms should be returned not later than the 27th June, 1939. All communications must be endorsed "Assistant County Medical Officer."

Any form of canvassing is strictly forbidden and will disqualify.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, June, 1939.

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The Radium Institute and Mount

VERNON HOSPITAL,
1, Riding House-street, London, W.1.

Applications are invited for the post of HOUSE SURGEON at the MOUNT VERNON HOSPITAL, NORTHWOOD. The appointment will be made for six months at a salary at the rate of £150 per annum, with board and residence, commencing 17th July next.

Applications should be sent by the 24th June to the undersigned at the above address.

T. A. GARNER, Secretary.

Derbyshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant County Medical Officer of Health. Candidates must possess a qualification in Public Health, have had both practical and administrative experience of the medical inspection of school-children, the organisation of school clinics and infant welfare centres, and have a sound knowledge of the provisions of the Midwives Act and the rules of the Central Midwives Board.

The officer appointed will be required to devote the whole of his time to the duties of the office and to work under the direction of the County Medical Officer. The work will be largely administrative and office accommodation will be provided in the Central Office.

The salary will be £750, rising by annual increments of £25 to £850 a year, together with travelling expenses in accordance with the County scale, and the appointment will be subject to the approval of the Minister of Health and the Board of Education.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

The appointment will be determinable by three months' notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of not more than three recent testimonials, must be received by the undersigned not later than June 26th, 1939. Application forms are not provided.

W. M. ASH, County Medical Officer of Health.

County Offices, St. Mary's Gate, Derby.
9th June, 1939.

City of Birmingham.

PUBLIC HEALTH DEPARTMENT.
TUBERCULOSIS SECTION.

ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from single registered Male Medical Practitioners for the post of Assistant Resident Medical Officer in the Tuberculosis Section of the Public Health Department. The successful candidate will be employed both in a Sanatorium and in a Dispensary. Candidates should have held a resident general hospital appointment and an appointment in some institution recognised for the treatment of tuberculosis.

The commencing salary will be at the rate of £450 per annum, rising by £25 to £500 per annum with emoluments valued at £150 per annum, and the appointment will be terminable by one month's notice on either side.

The successful candidate will be required to pass an approved medical examination, to contribute to the superannuation scheme established under the Local Government Superannuation Act, 1937, and if under thirty years of age, to join the Birmingham Municipal Officers' Widows and Orphans' Pension Scheme.

Forms of application and a summary of duties may be obtained from, and should be returned with three recent testimonials to, the Chief Clinical Tuberculosis Officer, 151, Great Charles-street, Birmingham, 3, not later than the 26th June, 1939.

The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th June.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S. England or Edinburgh.

Applications, stating age and qualifications, together with copies of three recent testimonials, to reach the undersigned as soon as possible.

ARTHUR R. CASH, General Supt. and Secretary.

Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications from Gentlemen for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £200 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary, endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

Lincolnshire Joint Board for the MENTALLY DEFECTIVE.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER.

The Lincolnshire Joint Board for the Mentally Defective invite applications from single persons registered under the Medical Acts, and experienced in the institutional care and treatment of mental defectives, for the post of Assistant to the Medical Superintendent of the Harmston Hall Colony. The Colony, with four ancillary Institutions, provides accommodation for 745 high grade and low grade male and female mental defectives of all ages.

Salary £400, rising by annual increments of £25 to £500 per annum with emoluments (board, quarters, &c.) valued at £100. Travelling expenses will be paid in accordance with the scale of the Joint Board for the time being in force.

The officer appointed will be required to assist the Medical Superintendent generally in the performance of his duties and to devote the whole of his time to the duties of the office. The appointment will be subject to medical examination for superannuation under the Asylums Officers' Superannuation Act, 1909, as amended by the Asylums and Certified Institutions (Officers' Pensions) Act, 1918.

Applications, in the form which may be obtained from the undersigned, together with copies of not more than three recent testimonials, must be received by me not later than 24th June, 1939.

ERIC W. SCORER, Clerk to the Joint Board.

County Offices, Lincoln, 6th June, 1939.

Royal Manchester Children's Hospital, PENDLEBURY, Near MANCHESTER. (232 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon for a period of six months, commencing 1st August 1939. Salary £100 per annum. Candidates having previous experience in the administration of anæsthetics will be given preference.

Applications, stating qualifications and past experience, together with testimonials, to be sent to the undersigned not later than Thursday, 29th June, 1939.

By Order.

H. HEARDMAN, Secretary.

Derbyshire Education Committee.

SCHOOL MEDICAL SERVICE.

ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the post of Assistant School Medical Officer (Male) at a salary of £500, rising by annual increments of £25 to £700 per annum, together with a travelling allowance in accordance with the County scale.

Candidates must be registered Medical Practitioners of at least three years' standing. The duties will include work under the Maternity and Child Welfare Service, and experience in this work and in Mental Deficiency is desirable.

The appointment will be a designated post under the Local Government and Other Officers' Superannuation Act and the successful candidate will be required to pass a medical examination.

The officer appointed will not be allowed to engage in private or consulting practice, but will be required to devote the whole time to the duties of the office and will act under the direction of the School Medical Officer.

Forms of application may be obtained from the undersigned to whom they should be returned completed, together with copies of not more than three recent testimonials, on or before June 26th, 1939, endorsed "Assistant School Medical Officer."

The appointment will be terminable by three months' notice on either side.

W. M. ASH, School Medical Officer.

County Offices, St. Mary's Gate, Derby, 9th June, 1939.

Norfolk and Norwich Hospital, NORWICH. (448 Beds.)

Applications are invited for the following posts:—

(*a*) HOUSE PHYSICIAN. (*b*) HOUSE SURGEON.

The salary for each post is at the rate of £120 per annum, with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age and nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than Tuesday, the 20th June, 1939.

FRANK INCH, House Governor and Secretary.

10th June, 1939.

Hull Municipal Maternity Home and INFANTS' HOSPITAL. (116 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER (Woman).

Applications are invited from unmarried or widowed Women Medical Practitioners for the appointment of Junior Resident Medical Officer at the above Institution.

Salary, £100 per annum, together with board, washing, and residence at the Maternity Home.

The appointment will be for six months, with a possible extension for a further period of six months.

Applications, on forms to be obtained from the undersigned, are returnable not later than Thursday, 22nd June, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Health Department, Guildhall, Hull, June, 1939.

Education Committee for the County BOROUGH OF BRIGHTON.

APPOINTMENT OF MALE SENIOR MEDICAL OFFICER AND ASSISTANT TO THE MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointment. Candidates must not be over forty-five, have had experience of the School Medical Services, possess the Diploma in Public Health, or its equivalent, and be approved by the Board of Education for Mental Deficiency work.

The Senior Medical Officer will act under the supervision of the School Medical Officer and will be required to devote his whole time to the service of the Authority; he will not be allowed to undertake any private practice, and will be required to reside in the borough of Brighton.

Salary £800, rising by biennial increments of £50 to a maximum of £1000, which is subject to statutory deductions under the Local Government and Other Officers' Superannuation Acts.

Canvassing, directly or indirectly, will disqualify.

Form of application and schedule of duties may be obtained from the Education Officer, 54, Old Steine, Brighton, 1, and must be returned by 10 A.M. on the 24th June, 1939.

Hull Royal Infirmary.

The Appointing Committee invite applications for the office of HONORARY GYNÆCOLOGIST. The appointment will be for a period of five years and may be renewed. A candidate must be a Fellow of one of the Royal Colleges of Surgeons and a Member or Fellow of the British College of Obstetricians and Gynæcologists and be exclusively engaged in the practice of his speciality.

The number of beds allotted to the candidate appointed will, at the outset, be eight, and he will rank with the Assistant Surgeons. In addition to his in-patient work he will conduct an out-patient clinic at a time to be fixed by the Board. During the term of his appointment he shall not apply for or accept a post at any other hospital or clinic without the previous consent of the Board.

Personal canvassing is prohibited but candidates may send copies of their applications and testimonials to members of the Appointing Committee.

Applications, stating age, and addressed to the Chairman of the Board of Management, should reach the Hospital not later than Saturday, July 15th, 1939.

R. J. CARLESS, House Governor.

County Council of Durham.

EDUCATION DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

The County Education Committee invite applications for the post of Assistant School Medical Officer (Man) to act under the School Medical Officer in connexion with the inspection of school-children and such other duties as may be required by the Education Committee.

Commencing salary £500 per annum (provided the candidate has had not less than three years' post-graduate experience), rising by annual increments of £25 to £700 per annum, together with travelling expenses according to the County Scale.

The successful candidate will be required to devote his whole time to the duties of the office and reside in or near the district to which he will be attached at a place to be approved by the Education Committee. The appointment will be subject to three calendar months' notice on either side, expiring on the last day of any calendar month.

Applicants must have had experience in the work of school medical inspection and preference will be given to candidates who:—

(*a*) Have had experience in the work of School Clinics;
(*b*) Have been accustomed to make special reports on Mentally Defective, Physically Defective, Epileptic and other Defective Children.

The possession of a Diploma in Public Health is essential.

Canvassing, directly or indirectly, is prohibited and will disqualify.

A deduction will be made from the salary in accordance with the Local Government Superannuation Act, 1937, and the appointment will be subject to the candidate passing the medical examination in connection therewith.

Other terms and conditions of appointment to be in accordance with the County Regulations.

Forms of application, to be returned not later than Saturday, 24th June, 1939, may be obtained from the Director of Education, Shire Hall, Durham, on receipt of a stamped addressed foolscap envelope.

THOS. B. TILLEY, Director of Education.

Shire Hall, Durham, 1st June, 1939.

King George Hospital, Ilford (near London). (207 Beds.)

Applications are invited for the following appointments:—

MEDICAL REGISTRAR (Male) for twelve months from 1st July. Salary at the rate of £150 per annum.

ASSISTANT CASUALTY OFFICER and HOUSE SURGEON to SPECIAL DEPARTMENTS (Male), with experience in ophthalmic work, for six months from 1st July. Salary at the rate of £100 per annum.

Forms of application may be obtained from the undersigned to whom they should be returned, duly completed, not later than the 22nd June.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

District Infirmary, Ashton-under-Lyne.

(General Hospital. Mainly Surgical.)

Wanted, July 1st, a HOUSE SURGEON.

The resident staff comprises a Resident Surgical Officer, Casualty Officer, and two House Surgeons.

Six months' appointment, which may be prolonged.

Salary at the rate of £150, with the usual residential emoluments.

Candidates must be fully qualified and duly registered.

Applications should be sent to—

FRANK OLIVER, General Superintendent and Secretary.

June 12th, 1939.

Throat, Nose and Ear Hospital,

NEWCASTLE-ON-TYNE.

Applications are invited for the post of HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry. Previous experience in the speciality preferable, but not essential.

The Hospital is recognised for training for the D.L.O., and offers opportunities for reading in a University City.

Candidates should forward applications, stating age and nationality, together with copies of testimonials, to the undersigned, from whom further particulars can be obtained.

THE SECRETARY.

West Riding of Yorkshire Mental

HOSPITALS BOARD.

WADSLEY MENTAL HOSPITAL.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer in the Board's service at the above Mental Hospital, at a commencing salary of £350 per annum, rising by annual increments of £25 to a maximum of £450 together with emoluments (board, apartments, and laundry) valued at £120 per annum. The Board will allow an extra £50 per annum to the successful candidate who (whilst on this scale) holds or obtains the Diploma in Psychological Medicine, for which this Hospital affords special study facilities.

It will be an advantage if candidates have had at least one year's experience in general medicine after qualification.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, Class I.

Applications, with copies of not more than two recent testimonials, stating age and full particulars, to be addressed to the Medical Superintendent, West Riding Mental Hospital, Sheffield, 6, not later than the 3rd July, 1939.

There is no printed form of application.

G. L. BANNER, Clerk of the Board.

Board Offices, Wakefield, June, 1939.

County Borough of Rotherham.

MEDICAL SERVICES COMMITTEE

MUNICIPAL GENERAL HOSPITAL.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Junior Assistant Resident Medical Officer at the Municipal General Hospital, Moorgate, Rotherham, at a salary of £180 per annum, together with the usual emoluments. The appointment will be for a period not exceeding twelve months, determinable by one month's notice on either side.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The Hospital is a general training school for nurses and is a recognised school for the training of midwives. The medical staff is composed of visiting consultants, a medical superintendent, and five resident medical officers.

The person appointed will be required to act under the general direction of the Medical Superintendent.

Forms of application may be obtained from the Medical Officer of Health, Municipal Offices, Rotherham, and must be returned to the undersigned endorsed "Junior Assistant Resident Medical Officer" not later than NOON on the 27th June, 1939.

CHAS. L. DES FORGES, Town Clerk.

Municipal Offices, Rotherham.

Barnwood House Hospital for Mental

AND NERVOUS DISORDERS,
Near GLOUCESTER.

Required, SECOND ASSISTANT MEDICAL OFFICER (Male, single). Commencing salary £450 per annum, with board, residence, and laundry, plus an extra £50 per annum if possessing the D.P.M. Experience in Psychotherapy a recommendation. The Hospital has its own non-contributory pension scheme.

Applications, with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

Essex County Hospital, Colchester.

Wanted, a HOUSE SURGEON (Male). Salary £175 per annum, with board, residence, and washing. Applicants are asked to state whether, if unsuccessful, they are prepared to stand for election as Assistant House Surgeon and Casualty Officer at £120 per annum.

Applications and testimonials to be sent not later than Thursday, 22nd June, to the Secretary.

County Council of Durham.

SCHOOL AYCLIFFE COLONY FOR MENTAL DEFECTIVES,
HEIGHINGTON, near DARLINGTON,
COUNTY DURHAM.

APPOINTMENT OF MEDICAL SUPERINTENDENT.

The County Council invite applications from registered Medical Practitioners (Male), who have had at least three years' experience in an institution certified under the Mental Deficiency Acts, for the whole-time appointment of Resident Medical Superintendent at the above-mentioned Institution.

Applicants must not be over forty-five years of age.

The first section of the colony, which is now in course of erection, will provide accommodation for 360 patients, and the necessary resident staff, and the accommodation of the colony will eventually be increased to 1040 Beds.

The commencing salary will be £800, rising by annual increments of £50 to a maximum of £1000 per annum, with emoluments (consisting of an unfurnished house, fuel, water, lighting laundry, &c.) valued for superannuation purposes at £100 per annum.

The appointment at first will be subject to the provisions of the Local Government Superannuation Act, 1937, but, after the institution is certified, will probably be made subject to the provisions of the Asylum and Certified Institutions (Officers Pension) Act, 1909, and the Asylum and Certified Institutions (Officers Pension) Act, 1918. It will be terminable by three months' notice on either side. The appointment will also be subject to the County Council's Regulations for the time being as to payment of salary in case of sickness. The successful candidate will be required to undergo a medical examination.

Applications, stating age, whether married or single, qualifications and experience, with copies of not more than three recent testimonials, must reach the undersigned not later than Monday, 3rd July, 1939.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 8th June, 1939.

The Stamford, Rutland and General

INFIRMARY.

Applications are invited for the post of HOUSE SURGEON (Male or Female). Salary at the rate of £250 per annum, with board, residence, and laundry.

The appointment is for six months, which may be extended for similar periods by re-election from time to time.

Applications, stating age, qualifications, experience, and nationality, with copies of not less than three recent testimonials, should be sent to the undersigned at once.

The elected candidate will be required to enter upon his duties on 1st July, 1939.

H. F. DONALD, Secretary.

June 6th, 1939.

Cardiff Royal Infirmary.

NATIONAL RADIUM CENTRE.

Applications are invited for the post of RADIUM REGISTRAR (Male or Female) to the Cardiff Royal Infirmary.

Applicants must be duly qualified Medical Practitioners. Previous clinical experience in Radium work is essential.

The remuneration will be at the rate of £400 per annum, with board and residence.

The successful applicant will in the first instance be appointed for a period of twelve months.

Information concerning the developments which are likely to take place in the near future at this Centre will be furnished on application.

Applicants are asked to state the earliest date on which they could commence duty.

Intending applicants should apply to the undersigned, who will furnish an application form which should be returned completed, together with copies of three testimonials, at the earliest possible moment.

R. ARMSTRONG,
General Superintendent and Secretary,
Cardiff Royal Infirmary.

June 8th, 1939.

Cardiff Royal Infirmary

(Associated with the Welsh National School of Medicine).

HONORARY PHYSICIAN REQUIRED.

Applications are invited for the vacancy shortly to arise in the office of Honorary Physician.

The Regulations provide that "Each Honorary Physician and Honorary Assistant Physician shall be a Graduate in Medicine of a University of the United Kingdom, and he shall not practise Surgery or Midwifery. He shall also be, or within a year of his appointment shall become, a Fellow or Member of the Royal College of Physicians of London, or a Fellow of one of the other Royal Colleges of Physicians in the United Kingdom."

The present Senior Assistant Physician is a Candidate for the vacancy.

Each candidate is required to send fifty copies of his application and testimonials (for circulation amongst members of the Election Committee and Medical Board), stating age qualifications, appointments held, &c., and endorsed "Honorary Physician," to reach the undersigned on or before Monday, 26th June, 1939.

R. ARMSTRONG, M.B., Ch.B.,
General Superintendent and Secretary.

June 9th, 1939.

Royal Victoria Infirmary,
NEWCASTLE-UPON-TYNE. (835 Beds.)

RESIDENT APPOINTMENTS.

The following Resident Appointments will become vacant as from Tuesday, 1st August, 1939.

The appointments are tenable for six months except the Skin Department and the Out-patient Dressing Department (Junior House Surgeon to Accident Room) which will alternate for three months.

4 HOUSE PHYSICIANS,
6 HOUSE SURGEONS,
1 HOUSE SURGEON to THROAT, NOSE AND EAR DEPARTMENT,
1 HOUSE SURGEON to OPHTHALMIC DEPARTMENT,
1 HOUSE SURGEON to GYNÆCOLOGICAL DEPARTMENT,
3 HOUSE SURGEONS to ORTHOPÆDIC DEPARTMENT,
2 HOUSE SURGEONS to ACCIDENT ROOM,
1 HOUSE SURGEON to SKIN DEPARTMENT,
2 ANÆSTHETISTS.

LEAZES HOSPITAL (PAY-BED SECTION).

2 HOUSE SURGEONS (may be eligible for reappointment).

Candidates must be registered in Medicine and in Surgery, and must produce evidence of being able to administer anæsthetics.

Candidates must be prepared to take any appointment.

As regard applications for the appointment of (*a*) House Surgeon to Accident Room, and (*b*) House Surgeons to Special Departments, preference may be given to candidates who have previously held two Resident Appointments.

Residents are remunerated at the rate of £50 per annum, except the Residents in the Leazes Hospital who receive £100 per annum, and the Anæsthetists who receive £200 per annum.

Before making application intending candidates are asked to apply to the undermentioned for a copy of the regulations governing the appointments, and form of application.

Applications, stating age, experience, and qualifications and accompanied by copies of not more than three testimonials, should be received by the undermentioned not later than first post on Monday, 26th June, 1939.

S. DUNSTAN, House Governor and Secretary.

9th June, 1939.

Royal Victoria Infirmary,
NEWCASTLE-UPON-TYNE. (835 Beds.)

WHOLE-TIME JUNIOR SURGICAL REGISTRAR.

Applications are invited for the post of whole-time Junior Surgical Registrar.

These appointments are intended for Graduates who desire to gain surgical experience and who have already held a post as House Surgeon. The post offers opportunity for post-graduate study.

The appointment, which will commence on 10th July, 1939, will in no case extend beyond three years, and will be for one year in the first instance, renewable for two further periods.

The rate of remuneration is £150 per annum.

Applications, with copies of not more than three recent testimonials, must be received on or before 27th June, 1939, by the undersigned, from whom further particulars may be obtained.

S. DUNSTAN, House Governor and Secretary.

9th June, 1939.

City of Birmingham.
MENTAL HOSPITALS DEPARTMENT.

RUBERY HILL AND HOLLYMOOR DIVISIONS.

The Committee of Visitors invite applications from duly qualified Medical Practitioners of either sex for the position of JUNIOR ASSISTANT MEDICAL OFFICER. The successful candidate will be required to reside in the Hospital.

The commencing salary will be £350 per annum plus the usual residential emoluments of board, lodging, laundry, and attendance. An increase of £50 will be granted on completion of twelve months' satisfactory service and thereafter increases of £25 per annum up to a maximum salary of £450 per annum. An additional £50 per annum will be paid to a holder of the D.P.M. qualification or to a person obtaining the D.P.M. after appointment. All fees received in connexion with panel work will be required to be paid into the Borough Funds, but for making insurance reports, reports on compensation cases and Coroner's inquests, the fees can be retained.

A person who has held, for at least six months, a medical or surgical residential post in a general hospital will be regarded as having an additional qualification. Previous mental hospital experience is not essential, but experience in the administration of anæsthetics is desired.

The candidate will be required to pass a medical examination, will be placed on the permanent staff after one year's satisfactory service, and will then be required to contribute under the Asylums Officers' Superannuation Act, 1909. He or she will be required to serve in such institution belonging to the Mental Hospitals Committee as they may from time to time direct. The appointment is subject to one month's notice on either side.

Applications, stating full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, must be addressed to the undersigned so as to be received not later than 8th July, 1939.

F. H. C. WILTSHIRE,
Clerk to the Committee of Visitors.

Town Clerk's Office, Council House, Birmingham, 1.

Leigh Infirmary, Lancs.
(86 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence, and laundry. The appointment is for six months with eligibility for re-election. Candidates must be fully qualified and registered.

Applications, stating age and nationality, together with copies of recent testimonials, should be forwarded to the undersigned not later than Saturday, 1st July, 1939.

B. R. CARTER, Secretary-Superintendent.

King Edward VII Hospital, Windsor.
(200 Beds.)

HOUSE SURGEON required middle of July. Applicants must be fully qualified Men or Women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than July 1st.

The appointment is recognised by the Royal College of Surgeons of England for the six months' training required of candidates before admission to the final examination for the Fellowship.

A. E. CHURCHER, Secretary.

City of Salford.

PUBLIC HEALTH DEPARTMENT.

Applications are invited from fully qualified Male Medical Practitioners for the post of ASSISTANT MEDICAL OFFICER (Whole-time) in the VENEREAL DISEASES TREATMENT CENTRE, at which the yearly attendances and new cases treated average 90,000 and 2000 respectively. The salary will be £500, rising by annual increments of £25 to £700 per annum. Applicants must have had previous experience in the treatment of Venereal Diseases, and must possess a certificate of attendance and instruction at a Venereal Diseases Treatment Centre, as specified in the Local Government (Qualifications of Medical Officers, &c.) Regulations, 1929.

Forms of application, &c., may be obtained from the Medical Officer of Health, 143, Regent-road, Salford, 5, Lancs., to whom they should be returned, accompanied by copies of not more than three recent testimonials, not later than Saturday, 1st July, 1939.

H. H. TOMSON, Town Clerk.

The Royal Infirmary, Bradford.

RESIDENT MEDICAL OFFICER and ASSISTANT PATHOLOGIST (Male, Single) required for 1st September. Salary £250 per annum, with board, residence, and washing.

There are 115 medical beds and three House Physicians.

The successful applicant will be required to act as Assistant to the Pathologist.

Applications, stating age, qualifications, and previous experience with copies of not more than three recent testimonials, should be received by the undersigned not later than 1st July.

H. TRUSSON, House Governor and Secretary.

7th June, 1939.

The Royal Infirmary, Bradford.

RESIDENT SURGICAL OFFICER (Male) required for 1st September to supervise the work of Five House Surgeons, and be generally responsible for the surgical work of the hospital.

Candidates must be single, have had previous hospital experience, and a special surgical qualification.

Salary £250 per annum, with board, residence, and washing. There are 345 beds and ten Resident Officers.

Applications, stating age, qualifications, and previous experience, with copies of not more than three recent testimonials, should be received by the undersigned not later than 1st July.

H. TRUSSON, House Governor and Secretary.

7th June, 1939.

Applications are invited for the position
of MEDICAL SUPERINTENDENT to the MARGUERITE HEPTON MEMORIAL ORTHOPÆDIC HOSPITAL, THORP ARCH, YORKS. (75 Beds.)

Candidates must be legally qualified and registered and hold the Diploma of F.R.C.S. (England).

Salary £700 per annum.

Previous experience in Orthopædic Surgery is essential.

Canvassing will not be regarded with favour.

It is proposed to extend the Hospital in the near future.

To begin with the post will be non-resident but as soon as the extensions are completed resident's quarters will be provided.

The appointment will be for a period of three years in the first instance, and will be renewable for further periods of five years. The successful applicant will be required to take charge of a number of After-care Clinics in the surrounding district.

Those candidates short-listed will be expected to interview members of the Committee individually before the final election meeting takes place.

Applications, stating age, qualifications, and experience and enclosing thirty copies of at least three recent testimonials, should be sent on or before 10 A.M. on 1st July to the undersigned, from whom further particulars can be obtained.

(Signed) LESLIE P. PHILLIPS, Secretary.

City of Liverpool.

RESIDENT ASSISTANT MEDICAL OFFICERS (Male and Female), ALDER HEY CHILDREN'S HOSPITAL.
(952 Beds.)

Applications are invited for the above appointments which fall vacant on 1st October, 1939. The appointments are for a period of six months in the first instance and may be reviewed for a similar period at the option of the Council, at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

In addition to acute medical wards, there are special departments for ophthalmia, ear, nose, and throat, and orthopædic cases.

Applications to be made upon forms obtainable from the Medical Officer of Health (Hospitals Department), Municipal Annexe, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than Wednesday, 28th June, 1939.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
June, 1939.

City of Liverpool.

HOSPITALS AND PORT HEALTH COMMITTEE.

RESIDENT ASSISTANT MEDICAL OFFICERS.

WALTON HOSPITAL	.. ..	(1869 Beds).
SMITHDOWN ROAD HOSPITAL		(1220 ,,).
MILL ROAD INFIRMARY	..	(762 ,,).

Applications are invited for the above appointments which fall vacant on 1st October, 1939.

The appointments are for a period of one year at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Hospitals Department, Municipal Annexe, Dale-street, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer" and returned to the undersigned not later than Wednesday, 28th June, 1939.

W. H. BAINES, Town Clerk.

Municipal Buildings, Liverpool, 2, June, 1939.

Kent and Canterbury Hospital,

CANTERBURY.
(182 Beds. 4 R.M.O.'s).

Applications are invited for the post of HOUSE SURGEON (Male) to the special departments (EAR, NOSE AND THROAT, OPHTHALMIC AND UROLOGICAL).

The appointment is for a minimum period of six months commencing 1st July, 1939.

Salary £125 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.L.O. and D.O.M.S. examination.

Applications, together with copies of recent testimonials, should be forwarded immediately to the undersigned.

J. F. KENT, Superintendent and Secretary.

Bristol General Hospital.

The Committee invites applications for the following appointments which become vacant on September 1st, 1939.

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a RESIDENT OBSTETRIC OFFICER, a HOUSE SURGEON to the SPECIAL DEPARTMENTS and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months, with salaries at the rate of £80 per annum and at the rate of £100 per annum for the Casualty House Surgeon, and, in the event of a second appointment being held, at the rate of £100 per annum in each case, with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience of administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned, with copies of testimonials, addressed to the undersigned on or before Saturday, July 8th, 1939, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

Walsall General Hospital.

The Committee are prepared to receive applications from Men for the post of RESIDENT SURGICAL OFFICER.

Candidates with English Fellowship preferred, salary at the rate of £300 per annum. The appointment will be for twelve months in case the committee so long require his services. The Hospital will shortly contain 175 Beds and there is good surgical experience.

Applications, with copies of three testimonials, to be made to the undersigned.

WALTER FRANCOMBE, House Governor.

9th June, 1939.

Walsall General Hospital.

The Committee invite applications from Men for the post of HOUSE SURGEON. Salary at the rate of £150 per annum. The appointed candidate will be required to take up his duties on 1st July. The Hospital will shortly contain 175 beds.

Applications, with copies of three recent testimonials, to be addressed to the undersigned.

WALTER FRANCOMBE, House Governor.

12th June, 1939.

County Borough of Brighton.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER (CIVIL DEFENCE).

The Town Council invite applications for the appointment of a full-time Assistant Medical Officer for Civil Defence at a salary of £500 per annum, plus a motor-car allowance of £50 per annum unless and until the Corporation shall make available a car for the use of the officer appointed.

Applicants must have expert knowledge of the subject and will be required to act under the general supervision of the Medical Officer of Health, and subject in time of war to the Emergency Committee and to the Controller appointed pursuant to A.R.P. Circular 57.

The appointment will be in the first instance for one year (subject to satisfactory service), and thereafter subject to one month's notice on either side.

Applications must be made on the official form, which may be obtained from the undersigned and must be returned (endorsed "Assistant Medical Officer") not later than 12 NOON on Monday, the 26th June, 1939.

Applicants are not required to send testimonials in the first instance, but should provide the names and addresses of three gentlemen who are prepared to do so on direct application.

Canvassing, either directly or indirectly, will be a disqualification.

J. G. DREW, Town Clerk.

Town Hall, Brighton, 9th June, 1939.

City of Bradford.

INFECTIOUS DISEASES HOSPITALS.

MEDICAL SUPERINTENDENT.

Applications are invited for the post of Medical Superintendent. Salary £850 per annum, rising, subject to satisfactory service, by biennial increments of £50 to £1062 10s. per annum.

The salary is subject to a deduction under the terms of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Further particulars and forms of application may be obtained from the Medical Officer of Health, Town Hall, Bradford, on receipt of a stamped addressed envelope.

Applications endorsed "Medical Superintendent" should be returned to the undersigned not later than Tuesday 27th June, 1939.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 9th June, 1939.

The Liverpool Sanatorium, Delamere

FOREST, FRODSHAM.
Via WARRINGTON.
(175 Beds for the Treatment of Patients suffering from Pulmonary Tuberculosis).

ASSISTANT TO THE MEDICAL SUPERINTENDENT.

Applications are invited from Male Practitioners with suitable qualifications for the above-named appointment.

Candidates must be unmarried and preference will be given to applicants who have held resident medical appointments since qualification, and have had practical institutional experience in the treatment of pulmonary tuberculosis.

Salary will be at the rate of £225 per annum, with board, quarters, and laundry.

The appointment is normally tenable for twelve months, but may be extended.

Particulars of duties and full information, together with forms of application, can be obtained from the Secretary, Hospital for Consumption, Mount Pleasant, Liverpool, 3. Forms completed, with copies of three recent testimonials, should be returned not later than 8th July, 1939, to the Secretary, Hospital for Consumption, Mount Pleasant, Liverpool, 3.

The Royal Infirmary, Sunderland.

(288 Beds.)

Applications are invited for the post of CASUALTY OFFICER and HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT for a period of six months from 17th July, 1939, at a salary of £120 per annum, with board, residence, laundry, &c.

Applications to be received by the House Governor and Secretary not later than 30th June, 1939.

Manchester Royal Infirmary.

FULL-TIME RADIOLOGIST FOR X RAY DIAGNOSTIC WORK.

Applications are invited for the post of full-time Radiologist for Diagnostic work. Salary and share of fees received from Private Work (to be determined hereafter by the Board of Management) guaranteed to amount to £1000 per annum.

Candidates must be graduates in Medicine of a British or Irish University, or Fellows, Members, or Licentiates of one of the Royal Colleges of the United Kingdom, and must hold a recognised diploma in radiology.

The successful applicant will be required to work under the supervision of the Director of the Diagnostic X Ray Department of the Infirmary.

Candidates should send fifteen copies of their application together with fifteen copies of three recent testimonials to the undersigned not later than 5th July, 1939.

By Order,

F. J. CABLE, General Superintendent and Secretary.

13th June, 1939.

Royal Infirmary, Blackburn.

(244 Beds. 5 Residents.)

RESIDENT HOUSE SURGEON (Male) required at a salary of £175 per annum with board, residence, laundry, &c.

Applications, with copies of testimonials, stating age, nationality, experience, &c., to be sent to the undersigned as early as possible.

T. DEWHURST,
General Superintendent and Secretary.

Royal Infirmary, Blackburn.

This Institution is recognised for the surgical practice required for the F.R.C.S. examination.

Royal Berkshire Hospital, Reading.

The Board of Management invite applications for the appointment of HONORARY ASSISTANT ANÆSTHETIST.

Candidates must be fully qualified Medical Practitioners whose names are entered on the British Medical Register.

The elected candidate will be appointed for the period ending on the third Tuesday in January, 1940, and will be eligible for re-election.

Canvassing on the part of a candidate or on his behalf will disqualify him.

Applications, with copies of not more than four testimonials, must reach the Secretary not later than 9 A.M. on Friday, June 30th, 1939.

The election will take place on Tuesday, July 4th, 1939.

By order,
H. E. RYAN, Secretary and House Governor.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL).
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence, and laundry.

As the appointee will be required to work mainly in the Surgical Wards, preference will be given to candidates with higher degrees and special post-graduate experience in Surgery.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, July 3rd, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Guildhall, Hull, June, 1939.

The Liverpool Hospital for Consumption

AND DISEASES OF THE CHEST,
MOUNT PLEASANT, LIVERPOOL 3.

Applications are invited for a FULL-TIME RESIDENT MEDICAL OFFICER to the Hospital for Consumption and Diseases of the Chest.

Previous Hospital experience desirable.

Both medical and surgical treatments of pulmonary tuberculosis are undertaken at this Hospital. The appointment will be for a period of one year. Salary £150 per annum, with board and residence.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, or names of two local referees, to be sent to the Secretary not later than 7th July, 1939.

The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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very fair condition for Sale. £12 or offer, including leather carrying case.—Address, No. 619, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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and Objectives, by Ross, Zeiss, Watson, &c., to be cleared at very low prices. Details on application.—City Sale and Exchange (1929), Ltd., 93–4, Fleet-street, E.C.4.

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3. W. LONDON.—PARTNERSHIP.—One-third Share in old estab. increasing middle-class Practice producing last year over £2400 p.a. Panel about 2000. Ingoing partner can choose own residence, should be about 30 and English. Premium 2 years' purchase.
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6. DEATH VACANCY.—OUTLYING EASTERN SUBURB.—PARTNERSHIP.—One-half Share in steadily increasing well-estab. Practice producing approximately £3000 p.a. Suitable house at moderate rental. Premium 2 years' purchase. With large panel.
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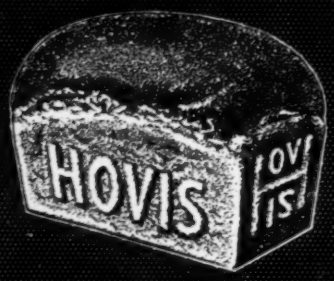

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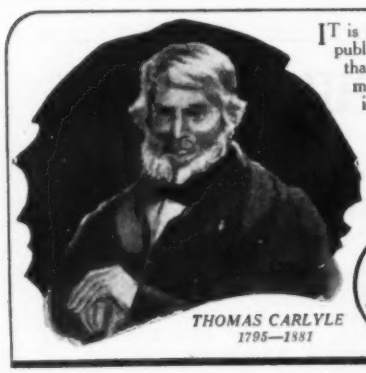

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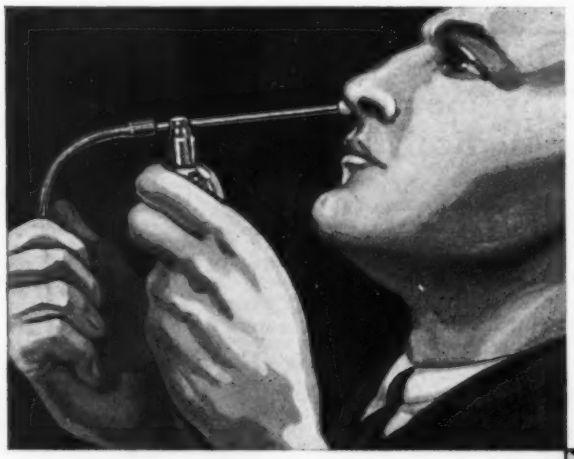

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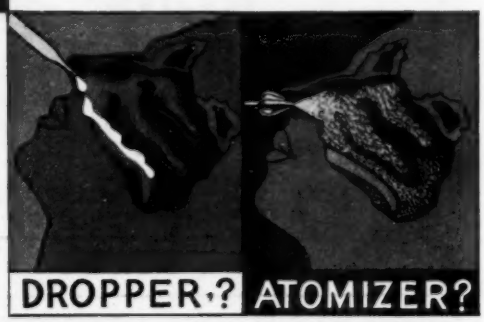

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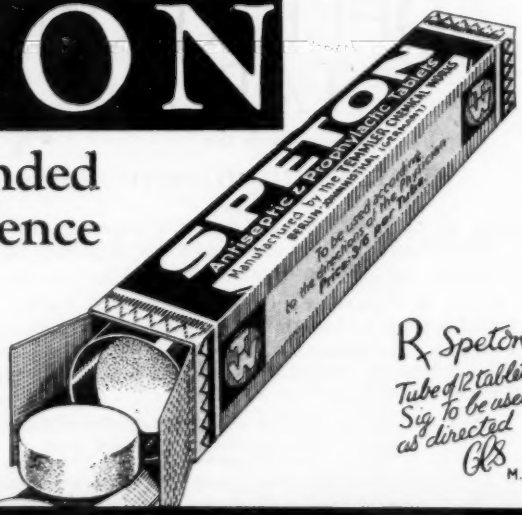

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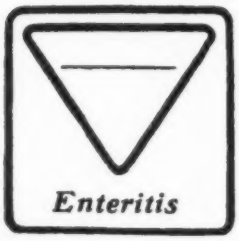

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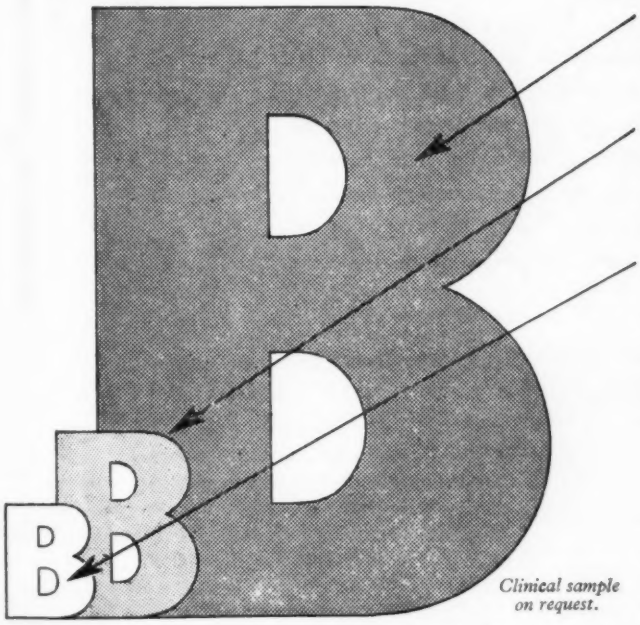

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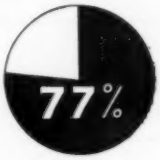

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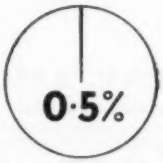

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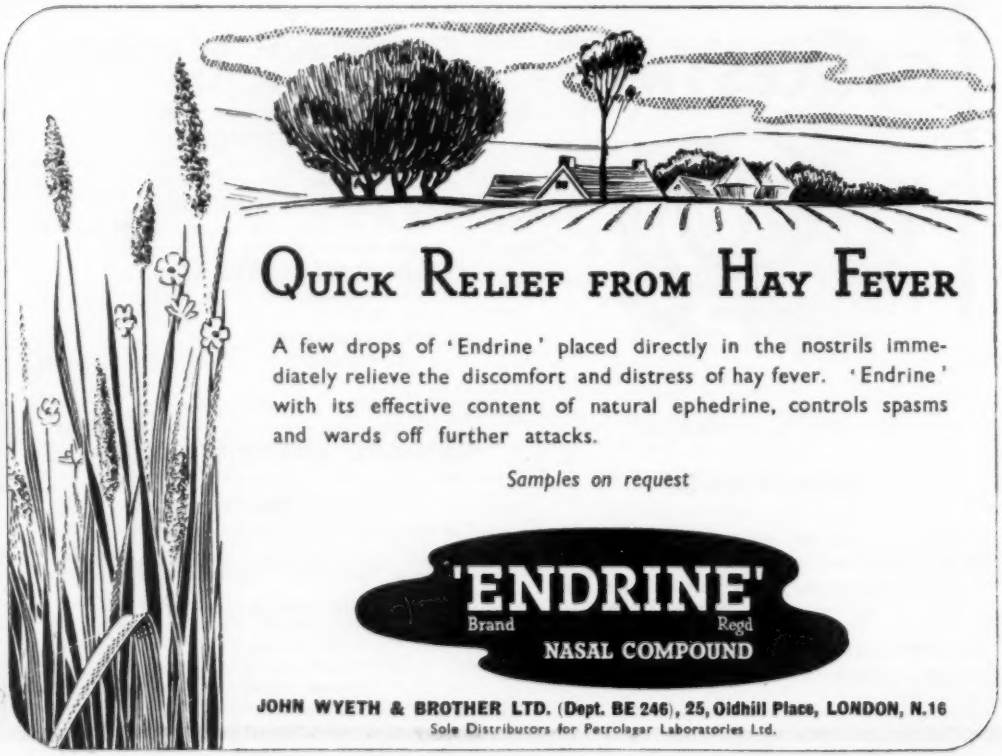

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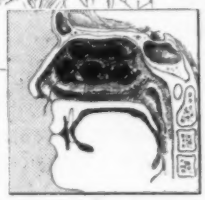

The tampon technique for the ARGYROL treatment of sinusitis. A number of small cotton pledgets are tied together with a piece of string. The whole is then soaked in a 10% solution of ARGYROL, and the chain of pledgets is then gently pushed into proper position. The posterior portion of the nasal vault is first packed, then the anterior portion and infundibular area and finally the middle turbinal region. The end of the string is left protruding from the nostril so that after 30 or 40 minutes the tampons may be easily withdrawn. This is often followed by considerable discharge and marked relief for the patient.

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The Treatment of the Scalp

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Price per tablet (*) 1/- (†) 1/3

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(The Mercurial Diuretic — Mersalyl B.P.)

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"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."—THE BRITISH MEDICAL JOURNAL.

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For Depression and Lack of energy. Take one to two teaspoonfuls in a wine-glassful of water three times a day after or between meals.

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(Diethylstilbœstrol)

A synthetic compound which clinical trials have shown to be as effective as the naturally occurring œstrogens, and to be highly active when administered by the mouth.

Tablets for oral administration

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Solution for injection
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are also available for issue on request. The possibility that this esterified product may have certain advantages over ordinary Stilbœstrol is being tested for us by a team of workers on behalf of the Therapeutic Trials Committee of the Medical Research Council.

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By reducing excessive irritation of the terminals of the vagus and stimulating the sympathetic

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overcomes the actual cause of an attack and secures

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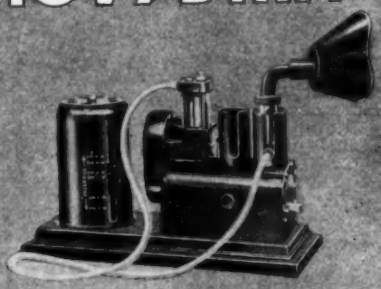

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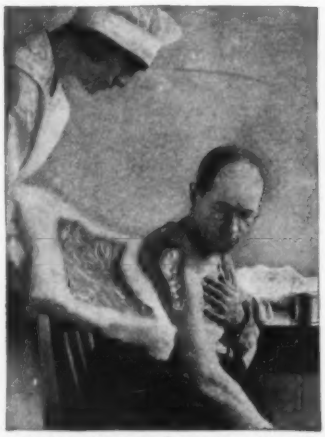
MANY physicians and surgeons have given enthusiastic expression to the use of Antiphlogistine Brand Dressing. Wounds, such as abrasions and contusions, tend to do unusually well under its use. An inhibitory antiseptic, exerting a tonic action on the capillaries, it aids the healing process, protects against further injury and helps to prevent any infection, inherent in a wound, from becoming a major one. It does not cause pain on application.



Antiphlogistine Brand Dressing relieves the inflammation and pain of a burn

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A report to the Therapeutic Trials Committee on the value of Streptocide in Puerperal Fever appeared in the "Lancet," November 27th and December 4th, 1937.

The therapeutical indications include:

Acute Puerperal Sepsis, Erysipelas, Tonsillitis, Streptococcal Meningitis, Gonorrhœal and B. Coli infections of the Genito-urinary Tract.

PRICES:

TABLETS	0.25 grm.	0.5 grm.	SOLUTION	
In bottles of 1,000	26/-	33/-	Ampoules, Boxes of 6 x 5 cc.	6/6

Made by

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An Important Advance *in Infant Feeding*

A Booklet

explaining in detail the "Veguva" System of Infant Feeding, together with clinical trial samples of "Veguva" Foods, will be sent on request.

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The "Veguva" System provides the essential nutritive elements of milk plus the valuable protective properties of vegetables and fruit. Another important point is the fact that in "Veguva" No. 2 the infant is introduced to starch and cellulose quite safely at an early age, thus materially assisting the transition from a purely milk to a mixed diet.

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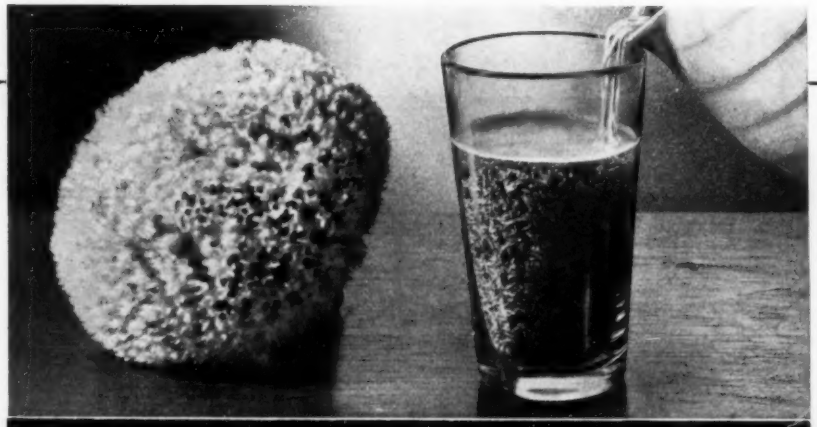
BABY FOODS

THE ADVANTAGES OF KELLOGG'S ALL-BRAN IN THE TREATMENT OF COMMON CONSTIPATION



ALL-BRAN is not unlike a sponge in its absorbency and softness and to some extent also the effect of All-Bran on the intestines resembles the cleansing action of a water-softened sponge.

The amazing softness and absorbency of All-Bran is strikingly shown when a small quantity is dropped into a tumbler and water added. It will at once be seen how readily All-Bran takes up the water, forming a large smooth mass.

IN cases of common constipation where it is advisable to increase the intake of " bulk " in the diet, clinical tests show that bran in the appetising form of Kellogg's All-Bran gives the most favourable results.

As a laxative food All-Bran has these advantages :

1 The " bulk " in All-Bran is absolutely non-irritant. It is more effective than the " bulk " matter of fruit and vegetables because it is less readily broken down.

2 The continued use of All-Bran does not reduce its laxative effect.

3 All-Bran is a much richer source of Vitamin B1★ than most of our common foods. It is also rich in iron.

4 All-Bran is a *food* rather than a medicine, and in consequence has a helpful " psychological " effect. Patients appreciate the fact that it is a pleasant " natural " treatment which need not interfere with their normal mode of life.

In all cases where an increase in the amount of " bulk " in the diet is indicated, Kellogg's All-Bran may be prescribed with advantage. As it passes through the intestines All-Bran absorbs water and softens like a sponge, and this water-softened mass gently but effectively cleanses the intestines. Eaten regularly, All-Bran promotes thorough evacuation of the bowel contents without a strain on the internal organs.

All-Bran may be served as a cereal with milk or cream, or cooked into appetising scones, bread, etc. It may also be taken with other cereals or sprinkled over salads and other foods. To assure maximum effectiveness, plenty of fluids should be taken, preferably between meals. All-Bran is obtainable from all reliable grocers. A packet will be sent free on request to any qualified practitioner. Inquiries should be addressed to : Kellogg Company of Great Britain Ltd., Stretford, Manchester.

★ *Two tablespoonfuls (22 grammes) of All-Bran contain about as much Vitamin B1 as 2 tomatoes (99 grammes) or a large serving of lettuce (92 grammes). Laboratory Handbook for Dietetics, Mary Swartz Rose.*

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Rapid hæmoglobin regeneration follows the administration of 'Plastules' brand Hæmatinic Compound. 'Plastules' supply *ferrous* iron—the most easily assimilable form—with the vitamin B complex of yeast which potentiates the iron and improves appetite. Where achlorhydria or hyperchlorhydria is present 'Plastules' with Liver Extract are available. Please instruct us to send samples and literature.

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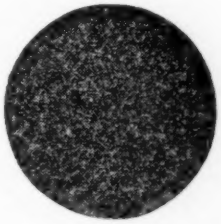
X-ray reveals uniform density of Agarol.

. . . Agarol has had a physical examination

THE x-ray says: "Look for uniform density throughout as evidence of soundness". Agarol brand Compound *is* a thoroughly uniform emulsion that acts the same way with every dose.

The microscope says: "Look for the small uniform oil globules" as a sign of thorough emulsification of Agarol. It means stability, freedom from oiliness, ready miscibility with water, milk, fruit juices or any other liquid.



The microscope shows extremely fine division of oil in Agarol.

The pharmacist says: "If it pours freely, it is the sign of a good emulsion." Agarol is a good mineral oil emulsion that has thoroughly proved its value in the relief of acute constipation and in the treatment of habitual constipation.

Descriptive literature and a liberal supply of Agarol supplied gratis to Members of the Medical Profession on request.

Agarol is not advertised to the public

Agarol brand Compound is available 4½, 7½ and 17 ounce bottles.
The average adult dose is one tablespoonful.

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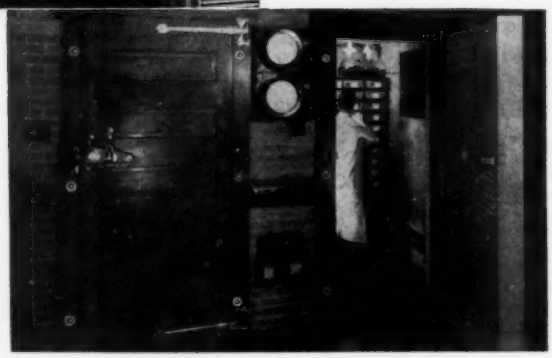
STEAM-WASHED PLATING ROOM where bacteriological analyses are made with every precaution to prevent contamination. All air taken into this glassed-in room is filtered and, at intervals as required, jets of steam are forced into the room to wash the atmosphere free of dust.



LARGE INCUBATORS, each with a capacity for 1600 Petri dishes, offer facilities for the numerous bacteriological tests made daily to assure the purity of Dextri-Maltose. Electrically heated and equipped with recording thermometers, the incubators can be varied from room temperature to 60° C. Uniform temperature is maintained within ± 1 degree.

Only the Most Modern Equipment for Testing MEAD'S DEXTRI-MALTOSE

EVERY type of equipment conducive to speed and accuracy in bacteriological tests is available in the Mead Johnson Laboratory. Steam- and electrically-heated sterilizers are automatically controlled. One of the newest has a capacity of 75 litres of media and required installation of a special steam-line. Besides the large incubators shown above, the laboratory has a number of smaller ones which, together with cold storage rooms, permit any desired temperature from −20° to 80° C. There is complete centrifuge equipment, including a supercentrifuge with a capacity of 40,000 R.P.M. Small equipment is of similar high standard—precision glassware for measuring and sensitive balances for weighing, as examples. All these facilities, together with many others, have been proved worth while for sanitary control in infant feeding, as is shown by a quarter-century of experience.

MEAD JOHNSON & COMPANY, Evansville, Indiana, U. S. A.

Please enclose professional card when requesting samples of Mead Johnson products to cooperate in preventing their reaching unauthorised persons

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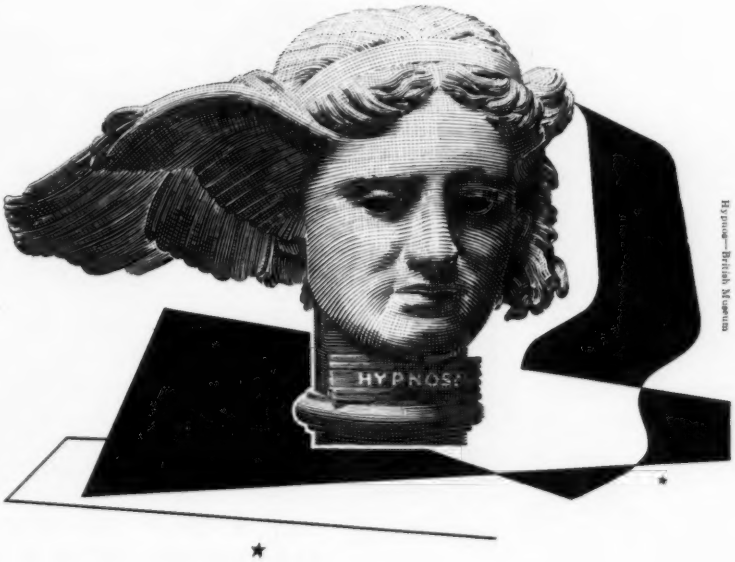

Hypnos—British Museum

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from One-Half the Dosage Required with Most Barbiturates

Administered orally, rectally or, in emergencies, intravenously, Nembutal exerts an extremely rapid but brief hypnotic and a pronounced sedative action from a dosage only about one-half that required with most other powerful barbiturates. This small dosage reduces the recovery period also by about one-half and, by lessening the amount of the drug to be eliminated, makes Nembutal, clinically, one of the safest of the barbiturates. ● Safety, rapidity and brevity of action recommend Nembutal for use not only as a pre-anæsthetic sedative in major and minor surgery, but also in the treatment of insomnia, hysteria, sea-sickness, nausea from any cause, eclampsia, delirium tremens, convulsions from strychnine or other poisoning and in obstetrics —with or without morphine and scopolamine. Nembutal has also been used with much success as a supplement to morphine in controlling the pain of early cancer. ● Nembutal is available through pharmacies in a wide variety of forms, the most widely employed of which are the ½-grain and 1½-grain capsules for oral use. Comprehensive literature and a free trial sample of Nembutal Capsules, 1½-grains, will be sent upon request. Coupon below is for your convenience.

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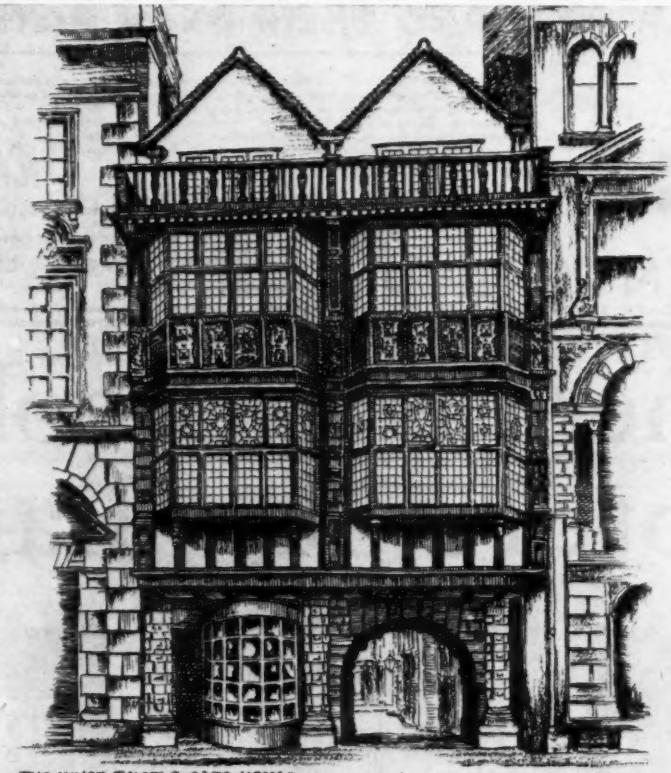

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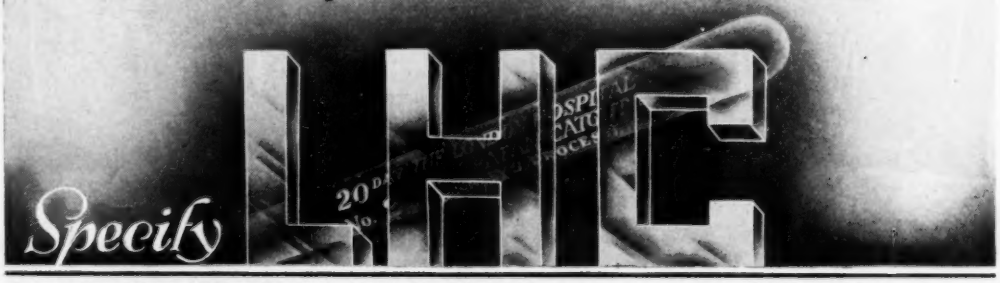

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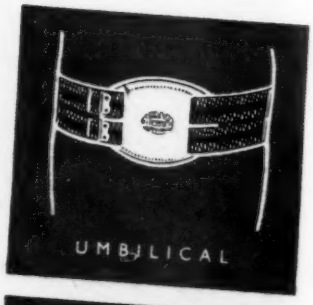

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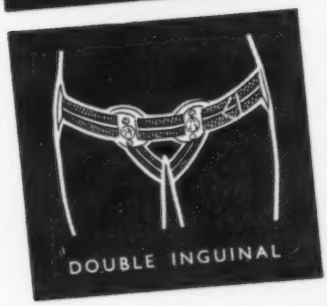

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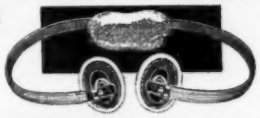

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KENNEDY CASSELS, Secretary.

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This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

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For all information apply:
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Telephone: Mundesley 94 and 95 (2 lines)

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Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

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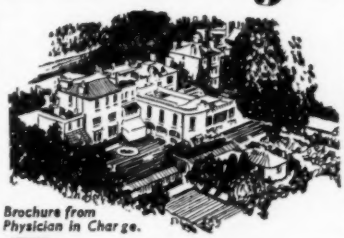

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Royal College of Physicians of London.

PROPHIT TUBERCULOSIS SURVEY.

The Royal College of Physicians proposes to appoint an ASSISTANT PROPHIT SCHOLAR to coöperate with the present Scholar in the conduct of a Survey into the incidence and progress of Tuberculosis in selected sections of the community, by clinical examination and tuberculin testing, over a period of years. Radiological examinations will also be carried out, but not necessarily by the Scholar. Medical qualification and clinical experience are required, but special experience in Tuberculosis is not essential.

The Scholarship will be renewable from year to year. The appointment will be a part-time one at £250 per annum with an allowance for expenses, and will start in the autumn of 1939.

Applications, which must be received before June 28th, 1939, should be addressed to the Assistant Registrar, Royal College of Physicians, Pall Mall East, London, S.W.1.

The Army Dental Corps.

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for Admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

The Army Dental Corps.

Vacancies exist for the appointment of DENTAL SURGEONS between the ages of thirty and forty-five years to temporary commissions in the Army Dental Corps for a period of one year for service in Great Britain and Northern Ireland.

Candidates must be British subjects of European descent, and the sons of British subjects and must be duly registered under the Dentists' Acts or Medical Acts in force in Great Britain and Northern Ireland.

They will be required to present themselves in London for interview and physical examination.

Appointments will be made in the rank of Lieutenant and the remuneration will be the same as for a Lieutenant in the Army Dental Corps, Regular Army. In addition, a gratuity at the rate of £8 6s. 8d. for each completed month of service will be payable on satisfactory completion of contract.

On completion of one year's satisfactory service, those retained beyond that period will be eligible for promotion to Captain with the pay and allowances appertaining to that rank.

Further particulars can be obtained by application in writing to the Director, Army Dental Service (A.M.D.6), War Office, Whitehall, London, S.W.1, and interviews will be readily granted, if required.

The Elizabeth Garrett Anderson

HOSPITAL, Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the following posts:—

HOUSE PHYSICIAN, 1st, 2nd and 3rd HOUSE SURGEONS, OBSTETRIC ASSISTANT.

The posts are for six months commencing 1st August, 1939. Remuneration at the rate of £50 per annum with board, residence, and laundry.

Further particulars of the posts may be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 30th June.

The Elizabeth Garrett Anderson

HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the honorary post of FIRST ASSISTANT to OBSTETRIC DEPARTMENT (non-resident). Yearly appointment, maximum three years. Duties to commence in June.

Further particulars of the post can be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 30th June.

Royal Chest Hospital,

City-road, E.C.1.
(Royal Northern Group of Hospitals.)

Applications are invited for the following post—

HOUSE PHYSICIAN (Male). Vacant 1st August for a period of six months. Salary at the rate of £100 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by the 30th June to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal Northern Hospital, Holloway, London, N.7.

Hospital for Tropical Diseases,

Gordon-street, W.C.1. (Seamen's Hospital Society.)

Three HOUSE PHYSICIANS (Male) required for six months, two as from 1st August, 1939, and one as from 1st September, 1939. Salary £120 per annum, with board, residence, and laundry.

Applications, stating age and nationality with copies of three testimonials, to be sent in on or before July 7th to the undersigned.

D. A. C. PRICE, Secretary.

Hospital for Tropical Diseases, 25, Gordon-street, W.C.1.
12th June, 1939.

Hospital for Tropical Diseases.

The Committee of Management of the Seamen's Hospital Society invite applications for the appointment of OPHTHALMIC SURGEON. Candidates should hold a Diploma in Ophthalmology and have experience of Ophthalmic work in the tropics.

The elected candidate will be appointed for twelve months but will be eligible for re-election.

Applications, with copies of not more than three testimonials, to be sent in on or before July 22nd, to the Secretary, Hospital for Tropical Diseases, 25, Gordon-street, W.C.1.

June 12th, 1939.

St. Thomas's Hospital.—Vacancy.

The appointment of HONORARY NEURO-SURGEON. Candidates must be fellows of the Royal College of Surgeons and specialise in surgery of the nervous system.

Applications, together with full details of academic career and testimonials, should be sent to the Clerk to the Governors on or before July 3rd.

St. Thomas's Hospital.—Vacancies.

The appointment of Two PHYSICIANS with charge of Out-patients. Candidates must be Fellows or Members of the Royal College of Physicians.

Applications, with full details of academic career and copies of testimonials to be sent not later than 5th July to the Clerk to the Governors, who will be pleased to give further information.

St. Thomas's Hospital.—Vacancy.

Appointment of HONORARY DIRECTOR of RADIO-THERAPY DEPARTMENT, who shall receive emoluments from private cases treated by him in the Department.

Applications, with full details of academic career and copies of testimonials, to be sent not later than 5th July to the Clerk to the Governors, who will be pleased to give further information.

Woolwich and District War Memorial

HOSPITAL, Shooter's Hill, London, S.E.18.
(General Hospital. 112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as Casualty Officer for six months from July 1st, 1939. Remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as Deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, June 26th, and short-listed candidates will be invited to meet the Appointments Committee on Friday, June 30th, 1939.

R. S. G. HUTCHINGS, Secretary.

West London Hospital,

Hammersmith, W.6. (239 Beds.)

A vacancy for the post of CHIEF CLINICAL ASSISTANT in the X RAY (DIAGNOSTIC) DEPARTMENT occurs on 11th July. Salary at the rate of £125 a year. The appointment in the first instance is for a period of twelve months and, subject to re-election, may be continued for further periods. Candidates must be duly qualified registered Medical Practitioners and have had experience of Radiological work, especially X Ray diagnosis.

Attendance of four sessions a week will be required.

Applications, accompanied by copies of testimonials, must reach me not later than Tuesday, 4th July. Candidates must attend a meeting of the Medical Council at 4.30 P.M. on Friday, 7th July. The appointment will be made by the House Committee at a meeting at 5 P.M. the same day.

H. A. MADGE, Secretary.

The London Lock Hospital.

Applications are invited for the appointment of a SURGICAL REGISTRAR (Male) to the Lock Hospitals at Dean-street (Men), and Harrow-road (Women). Candidates must be Fellows (or Members) of the Royal College of Surgeons of England, or Surgical Graduates of a University of the United Kingdom. Candidates should preferably have had some previous obstetrical experience. The appointment is for one year in the first instance, commencing 14th July; honorarium at the rate of £100 per annum.

Applications, with copies of three testimonials, must be in the hands of the Secretary not later than first post on Saturday, 8th July, from whom any further information relating to the appointment can be obtained.

9th June, 1939, 283, Harrow-road, W.9.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry at the end of September, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 31st August, 1939.

Elizabeth Garrett Anderson Hospital,
Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the post of ASSISTANT PATHOLOGIST. Appointment one year, eligible for re-election. Salary £250, rising by £50 if appointed for second year. Duties to commence 1st October.

Applications, stating age, qualifications, and experience, with copies of three testimonials, to be sent to the Secretary not later than 3rd July.

Elizabeth Garrett Anderson Hospital,
Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the post of MEDICAL REGISTRAR—non-resident—honorarium £100 per annum. Duties to commence 1st August.

Particulars of the post may be obtained from the Secretary, to whom applications, with copies of three testimonials, should be sent not later than 3rd July.

British Postgraduate Medical School.

Applications are invited for the post of FIRST ASSISTANT (whole-time) in the DEPARTMENT OF MEDICINE. The appointment is for six months and is renewable up to a maximum of five years. Duties to commence on 1st September, 1939. Salary three hundred pounds (£300) to six hundred pounds (£600) per annum, according to qualifications, experience, and length of service.

Applications will be received up to the first post on 15th July, 1939, and should be addressed to: the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12.

British Postgraduate Medical School.

There are three vacancies for HOUSE SURGEONS to the Surgical Unit, British Postgraduate Medical School, Hammersmith Hospital. The appointments are for six months and are not renewable. Salary £105 per annum, with board, residence, and laundry. Duties to commence on 1st July, 1939.

Duties are mainly in General Surgery, but one appointment is to the Department of Traumatic and Orthopædic Surgery. Applicants must have held a previous House appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Monday, June 26th, 1939.

Hospital of St. John and St. Elizabeth,
60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from August 1st, 1939. Salary at the rate of £100 per annum, with full board.

Applications, together with copies of three testimonials, should reach the undersigned by 27th June.

F. DUDLEY HOBBS, B.A., Secretary.

Chelsea Hospital for Women, S.W.3.

There will be a vacancy for an ANÆSTHETIST in the early part of July.

Applications are invited from duly registered Medical Men not engaged in general practice, who must have had training and experience in the various methods of administration of anæsthetics.

Sessions will be Fridays, morning and afternoon, and two Wednesday afternoons in February, June, and October. Honorarium 30 guineas.

Applications, accompanied by copies of testimonials, must reach the undersigned by first post on Friday, 30th June.

GEORGE W. COOLING, Secretary.

St. Mary's Hospital for Women
AND CHILDREN, Plaistow, E.13.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN, vacant July 17th, Male or Female. The appointment is for six months. Board and residence are provided. Salary at the rate of £150 per annum, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than June 27th.

A. ERNEST WILKES, Secretary.

Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of HOUSE PHYSICIAN (for which there are three vacancies). The duties include work in the Out-patient Department as well as in the Wards. The appointment is for six months, commencing on August 1st, with an honorarium of £50.

Applications, with copies of testimonials, must reach the undersigned not later than Saturday, July 8th, 1939.

F. G. ROUVRAY, Secretary.

Brompton, S.W.3, June, 1939.

Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A CASUALTY OFFICER is required immediately by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Monday, 10th July, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

The London Homœopathic Hospital

(Incorporated by Royal Charter),
Great Ormond-street and Queen-square, W.C.1.

HOUSE SURGEON.

The Board of Management invite applications for the appointment of House Surgeon, vacant August 1st.

The appointment is one of four resident medical posts which occur periodically during the year and is for a period of six months, with salary at a rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and registered. Selected candidates will be required to attend a meeting of the Medical Committee for interview.

Applications, stating age, with copies of testimonials, to be sent to the undersigned.

L. J. KNOWLES, Secretary.

London Jewish Hospital.

Stepney Green, E.1.

CLINICAL ASSISTANT (Honorary) required in the EAR, NOSE AND THROAT OUT-PATIENT DEPARTMENT (Wednesdays at 9 A.M.) and GYNÆCOLOGICAL OUT-PATIENT DEPARTMENT (Thursdays at 9.30 A.M.).

Apply to the Secretary.

British Red Cross Society.

CLINIC FOR RHEUMATISM.
Peto-place, Marylebone-road, N.W.1.

A vacancy has occurred in the post of HONORARY NEUROLOGIST at the British Red Cross Society's Clinic for Rheumatism, owing to the appointment of Dr. Nevin to the Directorship of the Central Pathological Laboratory at the Maudsley Hospital.

Candidates are invited to send their applications before 10th July, 1939, addressed to the Honorary Secretary of the Medical Board, British Red Cross Clinic for Rheumatism, Peto-place, Marylebone-road, N.W.1.

Victoria Hospital for Children.

Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invites applications for the post of :—

(*a*) HOUSE PHYSICIAN,
(*b*) HOUSE SURGEON.

both vacant 1st August, 1939. The appointments are for six months. Salaries at the rate of £100 per annum, with board, lodging, and washing.

(*c*) CASUALTY OFFICER (Non-Resident)

for a period of three months, duties to commence on 1st August, 1939. Hours 9 A.M. to 1.30 P.M. daily (including Saturday). Salary at the rate of £200 per annum with lunch.

Candidates are expected to attend a sub-committee for an interview, and should send their applications with copies of three testimonials to the Secretary not later than first post on Wednesday, 5th July.

D. ST. JOHN BAMFORD, Secretary.

King Edward Memorial Hospital,

EALING.
(145 Beds.)

CASUALTY OFFICER AND DEPUTY RESIDENT MEDICAL OFFICER (Male) required for August 1st, 1939. Six months' appointment with possibility of re-election for a further period. Salary £225 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned by the 5th July, 1939.

R. A. MICKELWRIGHT, House Governor.

Maida Vale Hospital for Nervous

DISEASES. London, W.9.

HONORARY RADIOLOGIST.

Applications are invited for the post of Honorary Radiologist. Candidates must possess the Diploma of Medical Radiology and Electrology, and have had extensive experience in the Radiology of the Skull and Spinal Column.

Applications, with details of academic career and testimonials, should be sent to the undersigned not later than the 6th July.

L. C. DIXON, Secretary.

London County Council.

Applications invited for appointment as part-time OBSTETRICIAN AND GYNÆCOLOGIST for duty at LAMBETH HOSPITAL. Salary £600. Will be responsible, subject to the general administrative supervision and control of Medical Superintendent, for whole of obstetric and gynæcological work at hospital, except that in regard to treatment of uterine cancer by radium and deep X ray will co-operate with officer responsible for radiotherapy. Required to live within reasonable distance of the hospital and to visit daily and as required.

Application forms containing full particulars obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 6), County Hall, Westminster Bridge, S.E.1. Returnable by 8th July. Women eligible. Canvassing disqualifies.

Borough of Walthamstow.

FEMALE ASSISTANT OBSTETRIC RESIDENT MEDICAL OFFICER.

The Council invite applications for the above appointment at their Maternity Hospital (47 Beds) at a salary of £200 per annum, plus board residence. The appointment is for one year and is not renewable.

The person appointed would work under the Resident Obstetrician and would have opportunity of obtaining obstetric experience and of preparing for higher obstetric qualification.

Applicants should have had some post-graduate experience in a recognised obstetric unit.

Applications to be returned to the undersigned on the prescribed form with copies of three recent testimonials not later than NOON, Friday, 7th July, 1939.

F. G. GARNER, Town Clerk.

Town Hall, Walthamstow, E.17.

Middlesex County Council.

NORTH MIDDLESEX COUNTY HOSPITAL,
Silver-street, Edmonton, N.18.

PHYSICIAN (Grade II). Registered Medical Practitioner (Man or Woman) of high qualifications and professional attainments devoting time chiefly to practice of clinical medicine. General hospital with over 1300 beds and 16,000 admissions yearly, largely acute medical. Whole-time duties, under direction of Medical Superintendent, may include teaching students, &c. Required to reside near hospital. Salary, £650–£50–£1000 per annum, is inclusive and any fees received to be paid to the Council. Established and pensionable staff, subject to medical examination and three months' notice.

Resident JUNIOR ASSISTANT MEDICAL OFFICER.* Registered Medical Practitioner having held resident appointments in general hospital. Whole-time medical and general duties under Medical Superintendent. Salary £250 per annum, with board, lodging, and laundry. Apply as below by 8th July.

ASSISTANT DENTAL OFFICER. Registered Dental Surgeon, fully qualified. Whole-time duties under supervision of County Medical Officer and Senior Dental Officer include dental inspection and treatment of school-children and women and young children under Maternity and Child Welfare Scheme. Private practice not allowed. Salary £500–£25–£700 per annum, with travelling expenses while on duty. Established and pensionable appointment, subject to medical examination.

HILLINGDON COUNTY HOSPITAL,
Nr. UXBRIDGE, MDX.

Resident CASUALTY MEDICAL OFFICER.* Registered Medical Practitioner with good all-round experience, preferably of casualty work. Whole-time duties under direction of Medical Superintendent include dealing with casualties and admissions to hospital, &c. Salary £350 per annum, with board, lodging, and laundry.

* Appointment, subject to medical examination and one month's notice, is primarily for six months, but may be extended for further six. Preservation of pension rights under certain Acts.

Written applications, giving age qualifications, and experience, with copies of not more than three recent testimonials, to the undersigned by 1st July. Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON to the EYE, EAR, NOSE AND THROAT DEPARTMENT. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned.

J. R. MACKRILL, Secretary.

The Children's Hospital, Sheffield.

(157 Beds.)

HOUSE PHYSICIAN required immediately. Salary £100 per annum, with board, residence and laundry.

Candidates (Male and unmarried), who must possess registered qualifications, should forward applications, stating age, nationality, &c., together with copies of three recent testimonials, to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Manchester Royal Infirmary.

FULL-TIME RADIOLOGIST FOR X RAY DIAGNOSTIC WORK.

Applications are invited for the post offull-time Radiologist for Diagnostic work. Salary and share of fees received from Private Work (to be determined hereafter by the Board of Management) guaranteed to amount to £1000 per annum.

Candidates must be graduates in Medicine of a British or Irish University, or Fellows, Members, or Licentiates of one of the Royal Colleges of the United Kingdom, and must hold a recognised diploma in radiology.

The successful applicant will be required to work under the supervision of the Director of the Diagnostic X Ray Department of the Infirmary.

Candidates should send fifteen copies of their application together with fifteen copies of three recent testimonials to the undersigned not later than 5th July, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
13th June, 1939.

York Dispensary.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Female) to commence duties August 1st.

The resident staff consists of two Medical Officers, whose duties are to visit and attend the sick poor in their own homes, and to assist the honorary staff.

Candidates must be duly qualified, registered, and unmarried. Experience in the administration of anæsthetics is essential.

Salary £200 per annum, with board, lodging, and attendance, with an allowance towards car expenses and for laundry.

Applications, with testimonials, to be sent on or before July 1st, to

JOHN C. PETERS, Secretary.
4, New-street, York.

Royal Eye Hospital,

PEVENSEY ROAD, EASTBOURNE.

NON-RESIDENT HOUSE SURGEON required to commence duty forthwith.

Salary £100 per annum and allowance in lieu of board-residence £175 per annum.

Applications, stating age, qualifications, and Ophthalmic experience, together with recent testimonials, should reach the undersigned as soon as possible.

Before engagement candidates have to be interviewed by the Honorary Surgeon, from whom further particulars could be obtained in person.

H. BYGRAVE, Hon. Secretary.

Royal Alexandra Hospital for Sick

CHILDREN, BRIGHTON.
(100 Beds.)

HOUSE PHYSICIAN (Male) required. Salary at the rate of £150 per annum, with board, lodging, and laundry. No canvassing allowed. The Hospital is recognised for the D.C.H. Diploma and the M.D. Examination, Branch 1. To commence duties at the beginning of July.

Applications in writing, accompanied by testimonials, should be sent to Mr. PERCY F. SPOONER, Secretary, Dyke-road, Brighton.

17th June, 1939.

City of Birmingham.

MENTAL HOSPITALS DEPARTMENT.

RUBERY HILL AND HOLLYMOOR DIVISIONS.

The Committee of Visitors invite applications from duly qualified Medical Practitioners of either sex for the position of JUNIOR ASSISTANT MEDICAL OFFICER. The successful candidate will be required to reside in the Hospital.

The commencing salary will be £350 per annum plus the usual residential emoluments of board, lodging, laundry, and attendance. An increase of £50 will be granted on completion of twelve months' satisfactory service and thereafter increases of £25 per annum up to a maximum salary of £450 per annum. An additional £50 per annum will be paid to a holder of the D.P.M. qualification or to a person obtaining the D.P.M. after appointment. All fees received in connexion with panel work will be required to be paid into the Borough Funds, but for making insurance reports, reports on compensation cases and Coroner's inquests, the fees can be retained.

A person who has held, for at least six months, a medical or surgical residential post in a general hospital will be regarded as having an additional qualification. Previous mental hospital experience is not essential, but experience in the administration of anæsthetics is desired.

The candidate will be required to pass a medical examination, will be placed on the permanent staff after one year's satisfactory service, and will then be required to contribute under the Asylums Officers' Superannuation Act, 1909. He or she will be required to serve in such institution belonging to the Mental Hospitals Committee as they may from time to time direct. The appointment is subject to one month's notice on either side.

Applications, stating full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, must be addressed to the undersigned so as to be received not later than 8th July, 1939.

F. H. C. WILTSHIRE,
Clerk to the Committee of Visitors.
Town Clerk's Office, Council House, Birmingham, 1.

Manchester Royal Infirmary.

MEDICAL REGISTRAR TO OUT-PATIENT DEPARTMENT
(Non-resident).

The Board of Management of the Manchester Royal Infirmary invite applications for the above post, vacant 24th July, 1939. Applicants must hold a Medical and Surgical qualification and be registered and also have held a hospital appointment. The appointment (mornings only—9 A.M. to 1 P.M., Sundays excepted) is for six months, renewable for further periods of six months, subject to the provisions of the bye-laws as to notice, &c. Salary £150 per annum.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board, not later than 8th July, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
19th June, 1939.

Royal Manchester Children's Hospital,

PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon for a period of six months, commencing 1st August 1939. Salary £100 per annum. Candidates having previous experience in the administration of anæsthetics will be given preference.

Applications, stating qualifications and past experience, together with testimonials, to be sent to the undersigned not later than Thursday, 29th June, 1939.

By Order.
H. HEARDMAN, Secretary.

Wrexham and East Denbighshire War

MEMORIAL HOSPITAL.
(136 Beds.)

RESIDENT HOUSE SURGEON (Male) for EAR, NOSE, AND THROAT AND OPHTHALMIC DEPARTMENTS.

Appointment is for six months, commencing July 2nd, 1939.

Salary £150 per annum, with board and lodging.

Applications, stating age, nationality, experience, and qualifications, to be sent, together with copies of three recent testimonials to the undersigned immediately.

LESLIE SPENCER, Secretary.
June 19th, 1939.

Bethlem Hospital, Monks Orchard,

EDEN PARK, BECKENHAM, KENT.

Wanted One RESIDENT HOUSE PHYSICIAN (Gentleman, unmarried) recently qualified in medicine and surgery.

The term of residence is for six months from August 1st, apartments, complete board and laundry being provided, and an honorarium at the rate of £150 per annum will be paid for the first three months, rising if commendable service be given to the rate of £200 per annum for the second period of three months.

Written applications, with testimonials, are to be forwarded to the Physician-Superintendent at the Hospital, from whom copies of the duties can be obtained.

King Edward VII Hospital, Windsor.

(200 Beds.)

HOUSE SURGEON required middle of July. Applicants must be fully qualified Men or Women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than July 1st.

The appointment is recognised by the Royal College of Surgeons of England for the six months' training required of candidates before admission to the final examination for the Fellowship.

A. E. CHURCHER, Secretary.

City and County of Bristol.

DEPARTMENT OF PUBLIC HEALTH.

ASSISTANT MEDICAL OFFICER OF HEALTH.

The Corporation of Bristol invite applications for the post of Assistant Medical Officer of Health. Salary £500, rising by annual increments of £50 to £700 per annum. The gentleman appointed will be required to devote the whole of his time to his duties and will not be allowed to engage in private practice. He will work under the direction of the Medical Officer of Health, in School Medical and City Health Departments; also in the Port, and in the Inspection of Aliens if appointed to do so by the Ministry of Health. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922. The Diploma of Public Health is essential.

Application forms and particulars of the duties of the post may be obtained from the Medical Officer of Health, 40, Prince-street, Bristol, 1, to whom they must be returned accompanied by not more than three recent testimonials, not later than the 5th July, 1939. Envelopes should be endorsed "Assistant Medical Officer of Health." Canvassing will disqualify.

JOSIAH GREEN, Town Clerk.
The Council House, Bristol, 1.

County Council of Durham.

SCHOOL AYCLIFFE COLONY FOR MENTAL DEFECTIVES, HEIGHINGTON, near DARLINGTON, COUNTY DURHAM.

APPOINTMENT OF MEDICAL SUPERINTENDENT.

The County Council invite applications from registered Medical Practitioners (Male), who have had at least three years' experience in an institution certified under the Mental Deficiency Acts, for the whole-time appointment of Resident Medical Superintendent at the above-mentioned Institution.

Applicants must not be over forty-five years of age.

The first section of the colony, which is now in course of erection, will provide accommodation for 360 patients, and the necessary resident staff, and the accommodation of the colony will eventually be increased to 1040 Beds.

The commencing salary will be £800, rising by annual increments of £50 to a maximum of £1000 per annum, with emoluments (consisting of an unfurnished house, fuel, water, lighting laundry, &c.) valued for superannuation purposes at £100 per annum.

The appointment at first will be subject to the provisions of the Local Government Superannuation Act, 1937, but, after the institution is certified, will probably be made subject to the provisions of the Asylum and Certified Institutions (Officers Pension) Act, 1909, and the Asylum and Certified Institutions (Officers Pension) Act, 1918. It will be terminable by three months' notice on either side. The appointment will also be subject to the County Council's Regulations for the time being as to payment of salary in case of sickness. The successful candidate will be required to undergo a medical examination.

Applications, stating age, whether married or single, qualifications and experience, with copies of not more than three recent testimonials, must reach the undersigned not later than Monday, 3rd July, 1939.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 8th June, 1939.

Bristol General Hospital.

The Committee invites applications for the following appointments which become vacant on September 1st, 1939.

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a RESIDENT OBSTETRIC OFFICER, a HOUSE SURGEON to the SPECIAL DEPARTMENTS and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months, with salaries at the rate of £80 per annum and at the rate of £100 per annum for the Casualty House Surgeon, and, in the event of a second appointment being held, at the rate of £100 per annum in each case, with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience of administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned, with copies of testimonials, addressed to the undersigned on or before Saturday, July 8th, 1939, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

The Liverpool Sanatorium, Delamere

FOREST, FRODSHAM.
Via WARRINGTON.
(175 Beds for the Treatment of Patients suffering from Pulmonary Tuberculosis.)

ASSISTANT TO THE MEDICAL SUPERINTENDENT.

Applications are invited from Male Practitioners with suitable qualifications for the above-named appointment.

Candidates must be unmarried and preference will be given to applicants who have held resident medical appointments since qualification, and have had practical institutional experience in the treatment of pulmonary tuberculosis.

Salary will be at the rate of £225 per annum, with board, quarters, and laundry.

The appointment is normally tenable for twelve months, but may be extended.

Particulars of duties and full information, together with forms of application, can be obtained from the Secretary, Hospital for Consumption, Mount Pleasant, Liverpool, 3. Forms completed, with copies of three recent testimonials, should be returned not later than 8th July, 1939, to the Secretary, Hospital for Consumption, Mount Pleasant, Liverpool, 3.

City of Salford.

PUBLIC HEALTH DEPARTMENT.

Applications are invited from fully qualified Male Medical Practitioners for the post of ASSISTANT MEDICAL OFFICER (Whole-time) in the VENEREAL DISEASES TREATMENT CENTRE, at which the yearly attendances and new cases treated average 90,000 and 2000 respectively. The salary will be £500, rising by annual increments of £25 to £700 per annum. Applicants must have had previous experience in the treatment of Venereal Diseases, and must possess a certificate of attendance and instruction at a Venereal Diseases Treatment Centre, as specified in the Local Government (Qualifications of Medical Officers, &c.) Regulations, 1929.

Forms of application, &c., may be obtained from the Medical Officer of Health, 143, Regent-road, Salford, 5, Lancs., to whom they should be returned, accompanied by copies of not more than three recent testimonials, not later than Saturday, 1st July, 1939.

H. H. TOMSON, Town Clerk.

Barbados General Hospital.

(275 Beds.)

Wanted, a duly qualified whole-time RADIOLOGIST, who shall be a registered Medical Practitioner, with Hospital experience of X Ray Therapy.

Salary £800 per annum, without quarters or private practice.

The appointment, which is pensionable and renewable, is for three years, subject to three months' notice on either side to terminate the engagement.

Twenty-eight days' leave a year on full pay.

First-class passage by sea direct to Barbados will be paid by the Hospital Board, and, in the event of the successful applicant being married, the Board will assist with the passages of this Officer and his family to the extent of a sum not exceeding £100. In case of service for less than three years a proportionate part of the passage money is to be refunded except he shall have relinquished his engagement on a medical certificate of ill health due to service.

The work required of the Radiologist is to take charge of the existing diagnostic X Ray equipment and to open an electrical Therapy Unit.

Applicant must state age, place and date of graduation, professional qualifications, and all particulars of previous experience in X Ray Therapy, and must forward a recent photograph and professional and personal testimonials. A medical certificate of physical fitness at the time of application is essential.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be received up to 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I., from whom further particulars may be obtained.

By order.

W. GOODMAN, Secretary.

Barbados General Hospital.

Wanted, a duly qualified Medical Practitioner, Male, single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of the Barbados General Hospital (275 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period.

Applications must be accompanied by a photograph, a medical certificate of physical fitness at the time of application, recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in administering modern anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 beds, or of a Post-graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registrable in the State of New York.

Applications will be closed on 31st August, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By order.

W. GOODMAN, Secretary.

Wingfield-Morris Orthopædic Hospital,

OXFORD.

RESIDENT HOUSE SURGEON (Male) required for six months. Salary at the rate of £100 to £120 per annum.

Applications, with testimonials, should be sent to Professor G. R. GIRDLESTONE before July 7th, duties to commence in August.

Wingfield-Morris Orthopædic Hospital,

HEADINGTON, OXFORD.

THE LORD NUFFIELD SCHOLARSHIP IN ORTHOPÆDIC SURGERY.

Male. £200 per annum, with board and residence for two years followed by £100 for three months' travel. Residence to commence about November 15th. Some Orthopædic experience essential.

Information can be obtained from, and application before October 7th should be made to, Professor G. R. GIRDLESTONE.

Barnwood House Hospital for Mental

AND NERVOUS DISORDERS,
Near GLOUCESTER.

Required, SECOND ASSISTANT MEDICAL OFFICER (Male, single). Commencing salary £450 per annum, with board, residence, and laundry, plus an extra £50 per annum if possessing the D.P.M. Experience in Psychotherapy a recommendation. The Hospital has its own non-contributory pension scheme.

Applications, with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

City of Bradford.

INFECTIOUS DISEASES HOSPITALS.

MEDICAL SUPERINTENDENT.

Applications are invited for the post of Medical Superintendent. Salary £850 per annum, rising, subject to satisfactory service, by biennial increments of £50 to £1062 10s. per annum.

The salary is subject to a deduction under the terms of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Further particulars and forms of application may be obtained from the Medical Officer of Health, Town Hall, Bradford, on receipt of a stamped addressed envelope.

Applications endorsed "Medical Superintendent" should be returned to the undersigned not later than Tuesday 27th June, 1939.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 9th June, 1939.

Royal Infirmary, Bradford.

(REGIONAL RADIUM CENTRE.)

HOUSE PHYSICIAN to the RADIUM AND SKIN DEPARTMENTS wanted at once. Six or twelve months' appointment.

Salary £200 per annum, with board, residence, and washing.

Applications, stating age, qualifications and previous experience (not necessarily in Radiotherapy), with copies of recent testimonials, should be sent to the undersigned as soon as possible.

H. TRUSSON, House Governor and Secretary.

June 13th, 1939.

The Royal Infirmary, Bradford.

RESIDENT MEDICAL OFFICER and ASSISTANT PATHOLOGIST (Male, Single) required for 1st September. Salary £250 per annum, with board, residence, and washing.

There are 115 medical beds and three House Physicians.

The successful applicant will be required to act as Assistant to the Pathologist.

Applications, stating age, qualifications, and previous experience with copies of not more than three recent testimonials, should be received by the undersigned not later than 1st July.

H. TRUSSON, House Governor and Secretary.

7th June, 1939.

The Royal Infirmary, Bradford.

RESIDENT SURGICAL OFFICER (Male) required for 1st September to supervise the work of Five House Surgeons, and be generally responsible for the surgical work of the hospital.

Candidates must be single, have had previous hospital experience, and a special surgical qualification.

Salary £250 per annum, with board, residence, and washing. There are 345 beds and ten Resident Officers.

Applications, stating age, qualifications, and previous experience, with copies of not more than three recent testimonials, should be received by the undersigned not later than 1st July.

H. TRUSSON, House Governor and Secretary.

7th June, 1939.

The Liverpool Hospital for Consumption

AND DISEASES OF THE CHEST,
MOUNT PLEASANT, LIVERPOOL 3.

Applications are invited for a FULL-TIME RESIDENT MEDICAL OFFICER to the Hospital for Consumption and Diseases of the Chest.

Previous Hospital experience desirable.

Both medical and surgical treatments of pulmonary tuberculosis are undertaken at this Hospital. The appointment will be for a period of one year. Salary £150 per annum, with board and residence.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, or names of two local referees, to be sent to the Secretary not later than 7th July, 1939.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL).
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence, and laundry.

As the appointee will be required to work mainly in the Surgical Wards, preference will be given to candidates with higher degrees and special post-graduate experience in Surgery.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, July 3rd, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Guildhall, Hull, June, 1939.

City of Leicester.

CITY GENERAL HOSPITAL.

RESIDENT MEDICAL OFFICER.

The Health Committee of the City of Leicester invite applications for the position of Resident Medical Officer in Charge of the MATERNITY AND GYNÆCOLOGICAL DEPARTMENTS under the supervision and general control of the Medical Superintendent for a period of six months, renewable if satisfactory for a further period of six months. Approximate number of confinements 600 a year. Medical Men working in the Maternity and Gynæcological Departments can be signed up for the Gynæcological part of the M.D. London also for the M.C.O.G. He will also be required to work in the Orthopædic Department.

Salary £300 per annum, together with full residential emoluments.

The Hospital is a modern building with 550 Beds, four Resident Medical Officers, and one Deputy Medical Superintendent.

The present holder of this post leaves on the 20th July, 1939.

Further particulars of the appointment may be obtained from the undersigned, and applications (on forms supplied), accompanied by copies of three recent testimonials, must be received not later than the 3rd July endorsed "R.M.O." addressed to the undersigned.

E. K. MACDONALD, Medical Officer of Health.

Health Offices, Grey Friars, Leicester, 23rd June, 1939.

The Royal Liverpool Children's

HOSPITAL.

There will be vacancies on October 1st next for Two RESIDENT HOUSE PHYSICIANS and Two RESIDENT HOUSE SURGEONS at the CITY BRANCH, Myrtle-street. The appointments will be for a period of six months. Salary in each case at the rate of £100 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Monday, 3rd July, 1939.

There will be vacancies on October 1st next for One RESIDENT MEDICAL OFFICER and One RESIDENT SURGICAL OFFICER at the HESWALL BRANCH of the Institution (240 Beds). The appointments will be for a period of six months. Salary in each case at the rate of £120 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Monday, 3rd July, 1939.

Worthing Hospital.

Applications are invited for the post of HOUSE SURGEON, vacant on the 15th July. The appointment is for six months. Salary at the rate of £130 per annum, with board, lodging, and laundry.

Candidate (Male) should forward application, stating age, nationality, qualifications, and experience, accompanied by testimonials, to the undersigned.

A. V. OAKTON, Secretary-Superintendent.

15th June, 1939.

Worthing Hospital.

Applications are invited for the post of HOUSE PHYSICIAN, vacant on the 15th July. The appointment is for six months, salary at the rate of £130 per annum, with board, lodging, and laundry.

Candidate (Male) should forward application, stating age, nationality, qualifications, and experience, accompanied by testimonials, to the undersigned.

A. V. OAKTON, Secretary-Superintendent.

15th June, 1939.

THE INCORPORATED

Liverpool School of Tropical Medicine

(University of Liverpool).

The Council invite applications for the post of LECTURER in MEDICAL PARASITOLOGY. Salary £700, increasing by annual increments of £25 to £800.

Applications must be received not later than 16th September, 1939, by the Secretary, School of Tropical Medicine, University of Liverpool, from whom further particulars may be obtained.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the following posts:—

(*a*) HOUSE SURGEON, vacant on August 1st, 1939.

(*b*) HOUSE SURGEON to the Special Departments, with care of beds for Ear, Nose, and Throat, Eye, Gynæcological and Maternity cases, vacant on August 10th, 1939.

Each appointment is tenable for a period of six months, but is terminable at an earlier date by one month's written notice on either side.

The salary of each officer will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, July 5th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

County Borough of Croydon.

WARLINGHAM PARK HOSPITAL (For Nervous and Mental Disorders), WARLINGHAM, SURREY.

LOCUM TENENS MEDICAL OFFICER required for twelve weeks from July 1st. Opportunity is afforded for gaining experience in all forms of Mental Disorders, including Insulin, Cardiazol shock, recreational and occupational forms of Therapy. Such experience would prove useful to a man who is later entering general practice. Salary seven guineas per week, together with the usual emoluments.

Apply at once to the Medical Superintendent, Warlingham Park Hospital, Warlingham, Surrey.

County Borough of Croydon.

PUBLIC HEALTH DEPARTMENT.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified Medical Practitioners for the above appointment. Applicants must be single Medical Men holding a special qualification in State Medicine, or a Diploma in Public Health, and must have had three years' experience of the Practice of Medicine since obtaining their medical qualifications.

Preference will be given to applicants who: (*a*) have had experience in Infectious Diseases, and (*b*) who have had some experience in the Aliens Order, 1920, and port medical work.

The candidate appointed will live at the Borough Isolation Hospital and will be required to undertake duties at the Croydon Aerodrome in connexion with the Aliens Order, 1920, and the Public Health (Aircraft) Regulations, 1938, and any other duties which may be assigned to him from time to time by the Medical Officer of Health, and to devote the whole of his time to the duties of the office.

The salary will be £400 per annum, rising by annual increments of £25 to a maximum of £600, with board and lodging at the Borough Hospital, Purley Way, Croydon, valued at £100 per annum.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Croydon, and should be returned to him, accompanied by copies of not more than three testimonials of recent date, not later than 11 A.M. on Monday, 3rd July, 1939.

E. TABERNER, Town Clerk.

Town Hall, Croydon, 16th June, 1939.

Romford Isolation Hospital.

(235 Beds.)

APPOINTMENT OF JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified and registered Practitioners for the above post. Candidates must be Male and unmarried. The appointment is for a period of twelve months. Salary at the rate of £250 per annum, plus the usual emoluments. Applicants should have held a post as house physician or house surgeon.

The hospital is a modern one, offers good opportunities for the study of infectious diseases, and has a well-equipped Laboratory.

Applications, stating age, nationality, experience, &c., together with copies of two recent testimonials, or names for reference, to be sent to the Medical Superintendent—endorsed "A.M.O."—not later than Wednesday, the 5th July, 1939.

T. W. A. GREENHALGH, Clerk to the Board.

19th June, 1939.

Pontefract General Infirmary and

HYDES HOSPITAL (YORKS).

(112 Beds.)

SENIOR RESIDENT SURGICAL OFFICER (Male, unmarried), duly qualified registered Medical Practitioner, with some previous surgical experience as Hospital Resident—orthopædic preferable.

Salary according to experience—£175 to £200 per annum.

The appointment is for six months, with option of further six months.

Applications, stating age, with testimonials, and nationality, to be sent to the undersigned at once.

DAVID J. RICHARDS, Secretary-Superintendent.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.

(220 Surgical and Medical Beds.)

CASUALTY OFFICER AND FRACTURE HOUSE SURGEON.

Applications are invited from fully qualified Men for the above post, to commence 16th July, 1939.

The appointment is for six months, salary at the rate of £225 per annum, with board, apartments, and laundry.

The duties include the post of House Surgeon to the Director of the Fracture Clinic, under whose care the whole of the fractures, both in- and out-patients, are treated, and deputy to the Resident Surgical Officer.

Candidates for this post should have had special fracture experience.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as early as possible.

M. H. BOONE, Superintendent and Secretary.

19th June, 1939.

Chesterfield and North Derbyshire

ROYAL HOSPITAL.

(220 Surgical and Medical Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited from fully qualified Men for the bove post.

Candidates must have had previous Senior Resident appointments with Surgical experience. The appointment is for twelve months. Salary at the rate of £300 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

19th June, 1939.

The Queen Elizabeth Hospital.

Birmingham United Hospital (Teaching Hospital).

Applications are invited from fully qualified candidates for the post of

RESIDENT ANÆSTHETIST.

Salary £70 per annum, with full residential emoluments.

Applications, stating age, experience, and qualifications, with copies of recent testimonials, should be sent at once to the undersigned.

G. HURFORD, Secretary.

The Queen Elizabeth Hospital, Edgbaston, Birmingham 15.

Dewsbury and District General

INFIRMARY, DEWSBURY. (100 Beds.)

The Senior Post is recognised by the Royal College of Surgeons (England).

Applications are invited for the post of SENIOR HOUSE SURGEON (Male), vacant towards the end of August. Salary £200 per annum, with board, residence, and laundry.

Also for the post of SECOND HOUSE SURGEON (Male). Salary £150 per annum, with emoluments. The duties are principally those of a House Physician and Casualty Officer.

The Infirmary is a modern Voluntary Hospital and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications, stating for which post, age, and hospital experience, together with copies of recent testimonials, to be addressed to my office.

FRED SMITH, Secretary-Superintendent.

County Borough of Dudley.

MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications are invited from Medical Practitioners not exceeding forty-five years of age, holding a Degree in, or Diploma of, Public Health, for the post of Medical Officer of Health and School Medical Officer.

The person appointed will be required to perform all the duties imposed on the Medical Officer of Health under relevant Acts, Orders, and Regulations, to act as School Medical Officer, Administrative Tuberculosis Officer, Medical Officer of the Maternity and Child Welfare Centres, Superintendent of the Blind and such other duties as may from time to time be prescribed by the Council. The person appointed must reside within the Borough, devote his whole time to the duties of the office, and will not be allowed to engage in private practice.

The appointment is subject to the Local Government and Other Officers' Superannuation Act, 1939, and the successful candidate will be required to pass a medical examination. The appointment will also be subject to the approval of the Ministry of Health and Board of Education, and will be terminable by three months' notice on either side. The successful candidate will be required to take up his duties on or before the 1st November, 1939.

The salary will be £900 per annum, rising by annual increments of £25 to £1050, in accordance with the Council's Conditions of Service.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, endorsed "Medical Officer of Health," should reach the undersigned not later than 5th July, 1939.

GEO. C. V. CANT, Town Clerk.

The Council House, Dudley, 20th June, 1939.

East Suffolk and Ipswich Hospital.

DEPARTMENT FOR RADIOTHERAPY.

The Board of Management has been requested to form the nucleus of a REGIONAL RADIUM CENTRE at this Hospital and with that object in view invites applications for the post of RADIOTHERAPIST (Whole-time).

Commencing salary £600 per annum, with certain emoluments. Qualifications: A diploma in Radiology and experience in Deep X Ray Therapy essential—a higher surgical qualification desirable.

The appointment will be made shortly but the duties will not commence until six months later.

Applications, stating age, qualifications, and experience, and copies of three recent testimonials, to be sent to the undersigned.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 24th June, 1939.

County of Southampton.

ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited for the post of Assistant County Medical Officer. Possession of a Diploma or Degree in Public Health is essential, and previous experience in the various branches of public health is desirable.

Salary £600 a year, rising, on approved service, by increments to £750 (subject to deductions under the Local Government Superannuation Act, 1937) in addition to travelling expenses.

Applications, with copies of not more than three recent testimonials, upon a form which, with the conditions of appointment, may be obtained from the County Medical Officer, The Castle, Winchester, should be sent to him as soon as possible, and not later than the 5th July, 1939. Canvassing is prohibited.

F. V. BARBER, Clerk of the County Council.

The Castle, Winchester, 13th June, 1939.

Lanarkshire Mental Hospitals Joint COMMITTEE.

HARTWOODHILL ADULT MENTAL DEFECTIVE COLONY, near SHOTTS.

Applications are invited for the post of MEDICAL SUPERINTENDENT at the above.

Applicants must be Male, not over forty-five years of age and duly qualified in Medicine and Surgery. Applicants should have experience in Hospital Administration and preference will be given to candidates having a Diploma in Psychological Medicine.

The salary will be £700 per annum, rising by annual increments of £50 to £850 per annum, together with house, coal, and light, valued at £150 per annum.

The appointment will be subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918.

Applications, accompanied by copies of not more than three recent testimonials, should be lodged with the undersigned not later than Monday, 10th July, 1939.

Canvassing will be a disqualification.

WALTER HENDERSON, Clerk and Treasurer.

Lanarkshire House, 191, Ingram-street, Glasgow.
16th June, 1939.

Kent Education Committee.

SCHOOL MEDICAL SERVICE.

DENTAL SURGEON.

Applications are invited from qualified candidates, not more than forty years of age, for the post of Dental Surgeon.

The successful candidate will be required to devote his whole time to the duties (which include the treatment of school-children, children under school age and expectant and nursing mothers), and will work under the supervision of the School Medical Officer. He will be expected to reside in the area allocated to him.

Salary £500 a year, increasing by annual increments of £10 to £550, together with travelling and subsistence allowances.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and is terminable by three months' notice on either side. The successful applicant will be required to pass a medical examination as to physical fitness.

Applications, stating age and full qualifications, accompanied by copies of three recent testimonials, must be forwarded to the undersigned not later than 15th July, 1939.

No form of application will be issued. Canvassing is a disqualification.

CONSTANT PONDER, M.D., School Medical Officer.

Sessions House, Maidstone, 16th June, 1939.

Lincoln County Hospital.

Wanted, JUNIOR HOUSE SURGEON (Male, unmarried) to take charge of Medical Beds, Ear, Nose, and Throat Beds and Ophthalmic Beds. Salary at the rate of £150 per annum, rising to £200 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Every candidate for the appointment must be registered under the Medical Acts.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, 13th June, 1939.

Cardiff Royal Infirmary.

RESIDENT ANÆSTHETIST.
(Male or Female.)

Applications are invited for the post of Resident Anæsthetist at the Cardiff Royal Infirmary.

Candidates should submit their applications on the prescribed form, stating age, sex, nationality, qualifications, and anæsthetic experience.

A list of rules and application form will be sent on request to the undersigned and the completed form should be returned at the earliest possible date.

The appointment will be for six months subject to renewal, and the salary will be at the rate of £100 per annum for the first six months and £150 for the second six months if reappointed.

R. ARMSTRONG, M.B., Ch.B.,
General Superintendent and Secretary.

Aberdeen Royal Infirmary.

ASSISTANT IN X-RAY AND RADIUM DEPARTMENTS.

The Directors invite applications from duly qualified Medical Practitioners for the post of non-resident Assistant Medical Officer in the X-RAY and RADIUM DEPARTMENTS of the Infirmary.

Applicants should have held resident appointments or had equivalent post-graduate experience. Salary is at the rate of £350 per annum.

Further particulars may be obtained from the undersigned with whom applications and three copies of testimonials should be lodged not later than 5th July, 1939.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1, Albyn-place, Aberdeen.

City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. JAMES'S HOSPITAL. (1250 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the post of Resident Surgical Officer at the St. James's Hospital, Leeds.

Applicants must have had previous resident experience in a General Hospital. The officer appointed will be required to undertake work in the surgical and orthopædic wards of the hospital under the supervision of the Medical Superintendent and Visiting Surgeons. Previous experience in the treatment of fractures is essential.

The commencing salary for the post is £350 per annum and the maximum £450 per annum, with annual increments of £25 subject to satisfactory service, the first increment taking effect on the 1st April following the completion of twelve months' service. Board, residence, and laundry are provided, these emoluments being valued for superannuation purposes at £120 per annum.

The successful candidate will be required to pass a medical examination and to contribute to the Corporation's Superannuation Fund.

Applications, on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Resident Surgical Officer" must be received at the Public Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Saturday, July 8th, 1939.

Canvassing in any form, either directly or indirectly, will be considered a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

County Borough of Oldham.

MUNICIPAL HOSPITAL.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the post of Resident Assistant Medical Officer. Applicants must not be over forty-five years of age.

Salary £200 per annum, with board, residence, and laundry.

Candidates should be unmarried.

The appointment will, in the first instance, be for a period of six months. The successful applicant, however, will be eligible for reappointment for a further period of six months.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund of the Corporation.

The hospital comprises 375 Beds, with facilities for gaining experience in medicine, surgery, midwifery, and the diseases of children.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Oldham, and should be returned, endorsed "Resident Assistant Medical Officer," not later than 9 A.M. on Monday, 17th July, 1939.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 20th June, 1939.

Keighley and District Victoria Hospital,

YORKSHIRE, WEST RIDING.
(140 Beds—Two Residents.)

APPOINTMENT OF RESIDENT MEDICAL OFFICERS.

Applications are invited from registered Medical Practitioners (Female) for the following posts:—

FIRST RESIDENT MEDICAL OFFICER. Salary £160 per annum, to commence 14th August, 1939.

SECOND RESIDENT MEDICAL OFFICER. Salary £120 per annum, to commence 1st September, 1939.

Proof of registration to be furnished before appointment. Full residential emoluments. Term, six months renewable.

Applications, with particulars of age, experience, and nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than 6th July, 1939.

J. YOUNG, Secretary-Superintendent.

Preston and County of Lancaster Royal INFIRMARY.

Applications are invited from unmarried gentlemen, fully qualified, for the post of HOUSE PHYSICIAN, with resident charge of Medical Wards (75 Beds).

Salary at the rate of £150 per annum with board, residence, and washing.

Applications, stating age and qualifications, accompanied by testimonials, to be forwarded to the Superintendent, Royal Infirmary, Preston.

City of Manchester.

CRUMPSALL HOSPITAL.
(1543 Beds.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT SURGICAL OFFICER at the above-named hospital.

The salary for the appointment is £400 per annum, rising by £25 annually to a maximum of £450 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

Applicants must hold a higher qualification in surgery, and must have had previous experience in residential hospital posts.

Requests for full information and forms of application should be made to the Medical Officer of Health, Box No. 399, Town Hall, Manchester, 2, endorsed "Resident Surgical Officer," and applications for the post must be received by him not later than July 8th, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 19th June, 1939.

City of Manchester.

ABERGELE SANATORIUM.
262 Beds (210 Children, 52 Adults).

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the Abergele Sanatorium.

The salary for the appointment commences at £350 per annum, rising by annual increments of £25 to a maximum of £450, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

Requests for full information and forms of application should be addressed to the Medical Officer of Health, Box No. 399, Town Hall, Manchester, 2, endorsed "Assistant Medical Officer," and applications for the post must be received by him not later than July 1st, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 20th June, 1939.

City Hospital, Chester.

RESIDENT MEDICAL OFFICER (Male) required for the above hospital which is a general hospital of 200 Beds with full visiting staff. The duties will be mainly medical, but include the administration of anæsthetics. Salary will be £200 per annum plus full residential emoluments. The appointment will be for twelve months and will be terminable at any time by one month's notice on either side.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should reach the Medical Officer of Health, Town Hall, Chester, by Wednesday, 5th July, 1939.

G. BURKINSHAW, Town Clerk.

Royal Berkshire Hospital, Reading.

(338 Beds.)

Applications are invited for the post of HOUSE SURGEON to the SPECIAL DEPARTMENTS (EYE, EAR, NOSE AND THROAT) (Male), which falls vacant on August 1st, 1939.

The appointment is for six months, and candidates must be fully qualified and registered.

Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials to be sent to the undersigned immediately.

H. E. RYAN, Secretary and House Governor.

Birmingham Maternity Hospital.

HOUSE SURGEON (Man or Woman) wanted for nine months from 1st August, 1939 (three months in hospital, three months on district, and three months in hospital). Salary to be at the rate of £75 per annum.

Applications, with full particulars and copies of testimonials, to be sent not later than 3rd July to HUGH C. ASTON, 45, Newhall-street, Birmingham, 3.

Birmingham Maternity Hospital.

Applications are invited for the post of RESIDENT MEDICAL OFFICER AND REGISTRAR, to commence duties on 1st August, 1939. Applicants must have had previous experience in Obstetrics and Gynæcology. Salary £200 per annum.

Applications and copies of testimonials to be sent not later than 3rd July to HUGH C. ASTON, 45, Newhall-street, Birmingham, 3.

The Children's Hospital, King Edward VII MEMORIAL, BIRMINGHAM, 16.

SENIOR CASUALTY HOUSE SURGEON.

Applications are invited for the above post. The salary is at the rate of £125 per annum, with board, residence, and laundry, and the appointment is tenable for six months, as from 1st July, 1939, but may be retained for a further six months.

Candidates, who must be fully qualified and registered, should send in their applications to the undersigned immediately.

HAROLD F. SHRIMPTON, House Governor.

19th June, 1939.

Worcester Royal Infirmary.

(165 Beds.)

Applications are invited for the post of HONORARY DERMATOLOGIST to the Infirmary.

The successful candidate will, during the first twelve months, be allowed to carry out private work in the Infirmary.

Applications, giving details of experience and qualifications, together with copies of three testimonials, should be sent not later than 30th June to the undersigned.

H. J. CLOUT, Secretary, Worcester Royal Infirmary.

Wrexham and East Denbighshire War MEMORIAL HOSPITAL.

(136 Beds.)

RESIDENT HOUSE SURGEON (Male or Female).

Appointment is for six months, commencing July 15th, 1939. Salary £150 per annum, with board and lodging.

Applications, stating age, nationality, experience and qualifications, to be sent, together with copies of three recent testimonials, to the undersigned immediately.

LESLIE SPENCER, Secretary.

June 17th, 1939.

The Gloucestershire Royal Infirmary AND EYE INSTITUTION, GLOUCESTER.

(232 Beds.)

FULL-TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post (non-resident). Salary £500 per annum.

Candidates must be registered Medical Practitioners and must hold a Diploma in Radiology.

The appointment is for one year, which may be renewed for a further period.

Further information may be obtained from the undersigned, to whom applications, stating age and qualifications, with copies of recent testimonials, should be sent on or before Wednesday, July 5th, 1939.

F. J. SYMONS, Secretary.

June 15th, 1939.

Royal Salop Infirmary, Shrewsbury.

(150 Beds increasing to 225 Beds.)

APPOINTMENT OF RESIDENT HOUSE SURGEON.

Applications are invited from fully qualified unmarried Men for the post of Resident House Surgeon, vacant immediately.

Salary £160 per annum, with board residence, &c. The appointment is for six months, subject to reappointment.

Applications, stating age, qualifications, experience, and nationality, accompanied by copies of three recent testimonials, to be sent to the undersigned immediately.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 17th June, 1939.

Exeter College, Oxford.

STAINES MEDICAL RESEARCH FELLOWSHIP.

The Rector and Fellows of Exeter College propose to elect to a Staines Medical Fellowship in the course of Michaelmas Term, 1939, to be held from 1st January, 1940.

The Fellowship is offered for research in Oxford in one of the Medical Sciences, such as Anatomy, Biochemistry, Clinical Science, Pathology, Pharmacology, Physiology.

The Fellowship is tenable for a maximum period of five years and is not renewable. The annual stipend will be £400, together with dining allowances, and, if necessary, with rooms in College. The Fellow will be required to join the Federated Superannuation Scheme for Universities.

The Fellow will be allowed to undertake a limited amount of teaching, subject to the approval of the Governing Body.

A candidate for the Fellowship must not have exceeded thirty-five years of age, must be of British birth, and should preferably hold a registrable medical qualification. He should send his application, together with birth certificate, a statement of his career, two sets of copies of his published work, and duplicate copies of not more than three testimonials, to the Rector, Exeter College, on or before 30th October, 1939.

St. James Hospital for Nervous and MENTAL DISEASE, MILTON, PORTSMOUTH.

LOCUM TENENS ASSISTANT MEDICAL OFFICER (Male) required, age not to exceed thirty-five years. There is a possibility of a permanent appointment.

Seven guineas a week, with board, lodging, and laundry.

Apply to the Medical Superintendent.

June 15th, 1939.

Huddersfield Royal Infirmary.

(321 Beds.)

Male HOUSE SURGEON required to be attached to the ABNORMAL MATERNITY DEPARTMENT. Duties, which include the administration of anæsthetics, to commence on 1st August, 1939. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period, at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Walsall General Hospital.

The Committee invite applications from Men for the post of HOUSE SURGEON. Salary at the rate of £150 per annum. The appointed candidate will be required to take up his duties on 1st July. The Hospital will shortly contain 175 beds.

Applications, with copies of three recent testimonials, to be addressed to the undersigned.

WALTER FRANCOMBE, House Governor.

12th June, 1939.

Walsall General Hospital.

The Committee are prepared to receive applications from Men for the post of RESIDENT SURGICAL OFFICER.

Candidates with English Fellowship preferred, salary at the rate of £300 per annum. The appointment will be for twelve months in case the committee so long require his services. The Hospital will shortly contain 175 Beds and there is good surgical experience.

Applications, with copies of three testimonials, to be made to the undersigned.

WALTER FRANCOMBE, House Governor.

9th June, 1939.

District Infirmary, Ashton-under-Lyne.

(General Hospital. Mainly Surgical.)

Wanted, July 1st, a HOUSE SURGEON.

The resident staff comprises a Resident Surgical Officer, Casualty Officer, and two House Surgeons.

Six months' appointment, which may be prolonged.

Salary at the rate of £150, with the usual residential emoluments.

Candidates must be fully qualified and duly registered.

Applications should be sent to—

FRANK OLIVER, General Superintendent and Secretary.

June 19th, 1939.

Leigh Infirmary, Lancs.

(86 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON (Male). Salary £150 per annum, with board, residence, and laundry. The appointment is for six months with eligibility for re-election. Candidates must be fully qualified and registered.

Applications, stating age and nationality, together with copies of recent testimonials, should be forwarded to the undersigned not later than Saturday, 1st July, 1939.

B. R. CARTER, Secretary-Superintendent.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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Hampton, Middlesex.—Corner House on New Estate in best part of District suitable for Doctor.—Full particulars from OAKLANDS ESTATES LTD., 429, Great West-road, Hounslow, Telephone: Hounslow 4698.

Near Berkeley Square.—Premises suit-able for Doctor's or Dentist's Consulting Rooms. Two large rooms, lavatory, &c. Separate entrance. Entirely self-contained. Rent £300 p.a., inclusive of rates.—Sole Agents, GOLBIE, GREEN & COXALL, 9, Bruton-street, W.1.

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3. LONDON, S.W.—Old-estab. mixed-class PRACTICE producing over £1900 p.a. Panel of 1181 patients. Corner detached house in good position. Separate entrance to professional rooms. 2 large reception, 5 bedrooms and 2 attics, &c., garden and garage. Scope for younger man. Price for house and practice £6000 or near offer.
4. MIDDLESEX.—Developing Residential District.—Mixed-class PRACTICE. Estab. 18 years and held by vendor 10 years. Average gross cash receipts about £1700. Panel 750. Nice house with good garden. Freehold for sale. Premium 2 years' purchase.
5. NORTHANTS.—PARTNERSHIP.—Five-elevenths' Share (increasing to one-half) in old-estab. unopposed country Practice averaging for past 3 years £2400 p.a. Panel of 1700. Appointments worth about £200 p.a. Suitable house (3 bedrooms, &c.) rented at £35 p.a. Premium £1750.
6. W. LONDON.—PARTNERSHIP.—One-third Share in old estab. increasing middle-class Practice producing last year over £2400 p.a. Panel about 2000. Ingoing partner can choose own residence, should be about 30 and English. Premium 2 years' purchase.
7. DEVELOPING NORTHERN SUBURB.—PARTNERSHIP.—One-half Share in rapidly increasing mixed-class Practice producing for last 12 months about £1150. Panel over 400. Fees from 3s. 6d. Ingoing partner can choose own residence. Premium £950.
8. LADY DOCTOR'S PRACTICE.—LONDON, E.—Steadily increasing mixed-class Practice averaging for last 3 years £938 p.a. Panel of 736. Small flat above surgery premises on rental or purchaser can choose own residence. Premium £1400.
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10. BERKS.—Old-estab. country PRACTICE producing about £870 p.a., £425 from panel. Scope for increase. Freehold house with ample accommodation. Premium £1350.
11. NOTTINGHAM.—PARTNERSHIP.—One-half Share in well-estab. Practice. Gross receipts about £2200. Panel of 3150 and P.M.S. Freehold house with ample accommodation. Junior partner retiring owing to ill health. Premium 2 years' purchase.
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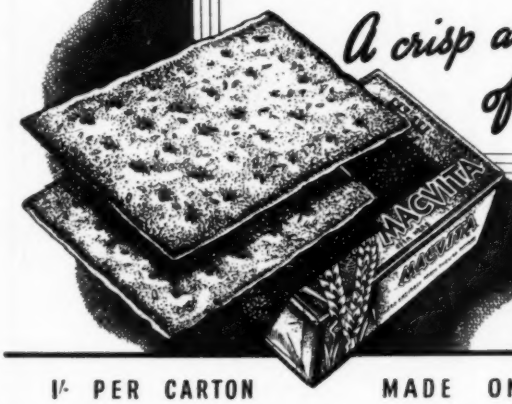

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